

Mesa Fully Formed, Inc.
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Including Minor Modification 5-13-03-01
and Significant Permit Revision S05-010, (#300377)
June 1, 2006

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**Permit Conditions
Mesa Fully Formed, Inc.
V97-027
Including Minor Modification 5-13-03-01
and Significant Permit Revision S05-010
January 25, 2006**

In accordance with Maricopa County Air Pollution Control Rules and Regulations (Rules), Rule 210 § 302.2, all Conditions of this Permit are federally enforceable unless they are identified as being locally enforceable only. However, any Permit Condition identified as locally enforceable only will become federally enforceable if, during the term of this Permit, the underlying requirement becomes a requirement of the Clean Air Act (CAA) or any of the CAA's applicable requirements.

All federally enforceable terms and conditions of this Permit are enforceable by the Administrator of the United States Environmental Protection Agency (Administrator or Administrator of the USEPA hereafter) and citizens under Section 304 of the CAA.

Any cited regulatory paragraphs or section numbers refer to the version of the regulation that was in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise.

GENERAL CONDITIONS:

- 1. AIR POLLUTION PROHIBITED:** [County Rule 100 §301] [SIP Rule 3]
The Permittee shall not discharge from any source whatever into the atmosphere regulated air pollutants which exceed in quantity or concentration that specified and allowed in the County or State Implementation Plan (SIP) Rules, the Arizona Administrative Code (AAC) or the Arizona Revised Statutes (ARS), or which cause damage to property or unreasonably interfere with the comfortable enjoyment of life or property of a substantial part of a community, or obscure visibility, or which in any way degrade the quality of the ambient air below the standards established by the Maricopa County Board of Supervisors or the Director of the Arizona Department of Environmental Quality (ADEQ).
- 2. CIRCUMVENTION:** [Rule 100 §104] [40 CFR 60.12] [40 CFR 63.4(b)]
The Permittee shall not build, erect, install, or use any article, machine, equipment, condition, or any contrivance, the use of which, without resulting in a reduction in the total release of regulated air pollutants to the atmosphere, conceals or dilutes an emission which would otherwise constitute a violation of this Permit or any Rule or any emission limitation or standard. The Permittee shall not circumvent the requirements concerning dilution of regulated air pollutants by using more emission openings than is considered normal practice by the industry or activity in question.
- 3. CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS:**
[County Rule 100 §401] [County Rule 210 §§301.7, 302.1e(1), 305.1c(1) & 305.1e]
Any application form, report, or compliance certification submitted under the County Rules or these Permit Conditions shall contain certification by a responsible official of truth, accuracy, and completeness of the application form or report as of the time of submittal. This certification and any other certification required under the County Rules or these Permit Conditions shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- 4. COMPLIANCE:**

A. COMPLIANCE REQUIRED:

- 1) The Permittee must comply with all conditions of this permit and with all applicable requirements of Arizona air quality statutes and the air quality rules. Compliance with permit terms and conditions does not relieve, modify, or otherwise affect the Permittee's duty to comply with all applicable requirements of Arizona air quality statutes and the Maricopa County Air Pollution Control Regulations. Any permit non-compliance is grounds for enforcement action; for a permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. Noncompliance with any federally enforceable requirement in this Permit constitutes a violation of the Act. [This Condition is federally enforceable if the condition or requirement itself is federally enforceable and only locally enforceable if the condition or requirement itself is locally enforceable only]

[County Rule 210 §§301.8b(4) & 302.1h(1)]

- 2) The Permittee shall halt or reduce the permitted activity in order to maintain compliance with applicable requirements of Federal laws, Arizona laws, the County Rules, or other conditions of this Permit.

[County Rule 210 §302.1h(2)]

- 3) For any major source operating in a nonattainment area for any pollutant(s) for which the source is classified as a major source, the source shall comply with reasonably available control technology (RACT) as defined in County Rule 100.

[County Rule 210 §302.1(h)(6)] [SIP Rule 220 §302.1]

Compliance with the RACT requirements of this Permit Condition for nitrogen oxides (NO_x) shall not be required if a waiver granted by the Administrator under Section 182 (f) of the Clean Air Act is in effect.

- 4) For any major source operating in a nonattainment area designated as serious for PM₁₀, for which the source is classified as a major source for PM₁₀, the source shall comply with the best available control technology (BACT), as defined in County Rule 100.

[County Rule 210 §302.1(h)(7)]

B. COMPLIANCE CERTIFICATION REQUIREMENTS: [County Rule 210 §305.1d]

The Permittee shall file an annual compliance certification with the Control Officer and also with the Administrator of the USEPA. The report shall certify compliance with the terms and conditions contained in this Permit, including emission limitations, standards, or work practices. The certification shall be on a form supplied or approved by the Control Officer and shall include each of the following:

- 1) The identification of each term or condition of the permit that is the basis of the certification;
- 2) The compliance status;
- 3) Whether compliance was continuous or intermittent;
- 4) The method(s) used for determining the compliance status of the source, currently and over the reporting period; and
- 5) Other facts as the Control Officer may require to determine the compliance status of the source.

The annual certification shall be filed at the same time as the second semiannual monitoring report required by the Specific Condition section of these Permit Conditions and every 12 months thereafter.

C. COMPLIANCE PLAN: [County Rule 210 §305.1g]

Based on the certified information contained in the application for this Permit, the facility is in compliance with all applicable requirements in effect as of the release date of the proposed conditions for this Permit. The Permittee shall continue to comply with all applicable requirements and shall meet any applicable requirements that may become effective during the term of this permit on a timely basis. [This Condition is federally enforceable if the applicable requirement itself is federally enforceable and only locally enforceable if the applicable requirement itself is locally enforceable only]

5. CONFIDENTIALITY CLAIMS: [County Rule 100 §402] [County Rule 200 §411]

Any records, reports or information obtained from the Permittee under the County Rules or this Permit shall be available to the public, unless the Permittee files a claim of confidentiality in accordance with ARS §49-487(c) which:

- A. precisely identifies the information in the permit(s), records, or reports which is considered confidential, and
 - B. provides sufficient supporting information to allow the Control Officer to evaluate whether such information satisfies the requirements related to trade secrets or, if applicable, how the information, if disclosed, could cause substantial harm to the person's competitive position.
- The claim of confidentiality is subject to the determination by the Control Officer as to whether the claim satisfies the claim for trade secrets.

A claim of confidentiality shall not excuse the Permittee from providing any and all information required or requested by the Control Officer and shall not be a defense for failure to provide such information.

If the Permittee submits information with an application under a claim of confidentiality under ARS 49-487 and County Rule 200, the Permittee shall submit a copy of such information directly to the Administrator of the USEPA.

[County Rule 210 §301.5]

6. CONTINGENT REQUIREMENTS:

NOTE: This Permit Condition covers activities and processes addressed by the CAA which may or may not be present at the facility. This condition is intended to meet the requirements of both Section 504(a) of the 1990 Amendments to the CAA, which requires that Title V permits contain conditions necessary to assure compliance with applicable requirements of the Act as well as the Acid Rain provisions required to be in all Title V permits.

A. ACID RAIN: [County Rule 210 §§302.1b(2) & 302.1f] [County Rule 371 §301]

- 1). Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the CAA and incorporated under County Rule 371, both provisions shall be incorporated into this Permit and shall be enforceable by the Administrator.
- 2) The Permittee shall not allow emissions exceeding any allowances that the source lawfully holds under Title IV of the CAA or the regulations promulgated thereunder and incorporated under County Rule 371.
 - a) No permit revision shall be required for increases in emissions that are authorized by allowances acquired under the acid rain program and incorporated under County Rule 371, provided that such increases do not require a permit revision under any other applicable requirement.

- b) No limit is placed on the number of allowances held by the Permittee. The Permittee may not, however, use allowances as a defense to non-compliance with any other applicable requirement.
- c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the CAA.
- d) All of the following prohibitions apply to any unit subject to the provisions of Title IV of the CAA and incorporated into this Permit under County Rule 371:
 - (1) Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners or operators of the unit or the designated representative of the owners or operators.
 - (2) Exceedances of applicable emission rates.
 - (3) The use of any allowance prior to the year for which it was allocated.
 - (4) Violation of any other provision of the permit.

B. ASBESTOS: [40 CFR 61, Subpart M] [County Rule 370 §301.8 locally enforceable only]
The Permittee shall comply with the applicable requirements of Sections 61.145 through 61.147 and 61.150 of the National Emission Standard for Asbestos and County Rule 370 for all demolition and renovation projects.

C. RISK MANAGEMENT PLAN (RMP): [40 CFR 68]
Should this stationary source, as defined in 40 CFR 68.3, be subject to the accidental release prevention regulations in 40 CFR Part 68, then the Permittee shall submit an RMP by the date specified in 40 CFR Section 68.10 and shall certify compliance with the requirements of 40 CFR Part 68 as part of the annual compliance certification as required by 40 CFR Part 70. However, neither the RMP nor modifications to the RMP shall be considered to be a part of this Permit.

D. STRATOSPHERIC OZONE PROTECTION: [40 CFR 82 Subparts E, F, and G]
If applicable, the Permittee shall follow the requirements of 40 CFR 82.106 through 82.124 with respect to the labeling of products using ozone depleting substances.

If applicable, the Permittee shall comply with all of the following requirements with respect to recycling and emissions reductions:

- 1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices under 40 CFR 82.156.
- 2) Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158.
- 3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by a certified technician under 40 CFR 82.161.

If applicable, the Permittee shall follow the requirements of 40CFR 82 Subpart G, including all Appendices, with respect to the safe alternatives policy on the acceptability of substitutes for ozone-depleting compounds.

7. DUTY TO SUPPLEMENT OR CORRECT APPLICATION: [County Rule 210 §301.6]

If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a proposed permit.

8. EMERGENCY EPISODES: [County Rule 600 §302] [SIP Rule 72.A.5. e, f & g]

If an air pollution alert, warning, or emergency has been declared, the Permittee shall comply with any applicable requirements of County Rule 600 §302.

9. EMERGENCY PROVISIONS: [County Rule 130 §§201 & 402]

An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that cause the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

An emergency constitutes an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the requirements of this Permit Condition are met.

The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- A. An emergency occurred and that the Permittee can identify the cause or causes of the emergency;
- B. At the time of the emergency, the permitted source was being properly operated;
- C. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in this permit; and
- D. The Permittee as soon as possible telephoned the Control Officer, giving notice of the emergency, and submitted notice of the emergency to the Control Officer by certified mail, facsimile, or hand delivery within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirement of County Rule 210 §302.1.e(2) with respect to deviation reporting. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

This provision is in addition to any emergency or upset provision contained in any applicable requirement.

10. EXCESS EMISSIONS: [County Rule 140 §§103, 401 & 402] [locally enforceable only]

NOTE: This Permit Condition is based on a County Rule which has not been approved as part of the State Implementation Plan and is therefore applicable only at the County level.

There are reporting requirements associated with excess emissions. These requirements are contained in the Reporting section of the General Permit Conditions in a subparagraph called Excess Emissions. The definition of excess emissions can be found in County Rule 100 §200.

- A. Exemptions: The excess emissions provisions of this Permit Condition do not apply to the following standards and limitations:
- 1) Promulgated pursuant to Section 111 (Standards Of Performance for New Stationary Sources) of the Clean Air Act (Act) or Section 112 (National Emission Standards For Hazardous Air Pollutants) of the Act;
 - 2) Promulgated pursuant to Title IV (Acid Deposition Control) of the Act or the regulations promulgated thereunder and incorporated under Rule 371 (Acid Rain) of these rules or Title VI (Stratospheric Ozone Protection) of the Act;
 - 3) Contained in any Prevention Of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the Environmental Protection Agency (EPA);
 - 4) Included in a permit to meet the requirements of Rule 240 (Permit Requirements For New Major Sources And Major Modifications To Existing Major Sources), Subsection 308.1(e) (Permit Requirements For Sources Located In Attainment And Unclassified Areas) of these rules.
- B. Affirmative Defense For Malfunctions: Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. The owner and/or operator of a source with emissions in excess of an applicable emission limitation due to malfunction has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the owner and/or operator of the source has complied with the excess emissions reporting requirements of these Permit Conditions and has demonstrated all of the following:
- 1) The excess emissions resulted from a sudden and unavoidable breakdown of the process equipment or the air pollution control equipment beyond the reasonable control of the operator;
 - 2) The source's air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
 - 3) If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, then the owner and/or operator satisfactorily demonstrated that such measures were impractical;
 - 4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
 - 5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
 - 6) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;
 - 7) During the period of excess emissions, there were no exceedances of the relevant ambient air quality standards established in County Rule 510 that could be attributed to the emitting source;
 - 8) The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;
 - 9) All emissions monitoring systems were kept in operation, if at all practicable; and
 - 10) The owner's and/or operator's actions in response to the excess emissions were documented by contemporaneous records.
- C. Affirmative Defense For Startup And Shutdown:

- 1) Except as provided in paragraph 2) below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. The owner and/or operator of a source with emissions in excess of an applicable emission limitation due to startup and shutdown has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the owner and/or operator of the source has complied with the excess emissions reporting requirements of these Permit Conditions and has demonstrated all of the following:
 - a. The excess emissions could not have been prevented through careful and prudent planning and design;
 - b. If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;
 - c. The source's air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
 - d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable, during periods of such emissions;
 - e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
 - f. During the period of excess emissions, there were no exceedances of the relevant ambient air quality standards established in County Rule 510 (Air Quality Standards) that could be attributed to the emitting source;
 - g. All emissions monitoring systems were kept in operation, if at all practicable; and
 - h. The owner's and/or operator's actions in response to the excess emissions were documented by contemporaneous records.
 - 2) If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to paragraph A. of this Permit Condition.
- D. Affirmative Defense For Malfunctions During Scheduled Maintenance: If excess emissions occur due to malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to paragraph A. of this Permit Condition.
- E. Demonstration Of Reasonable And Practicable Measures: For an affirmative defense under paragraphs A and B of this Permit Condition, the owner and/or operator of the source shall demonstrate, through submission of the data and information required by this Permit Condition and the excess emissions reporting requirements of these Permit Conditions, that all reasonable and practicable measures within the owner's and/or operator's control were implemented to prevent the occurrence of the excess emissions.
- 11. FEES:** [County Rule 200 §409] [County Rule 210 §§302.1i & 401]
 The Permittee shall pay fees to the Control Officer under ARS 49-480(D) and County Rule 280.
- 12. MODELING:** [County Rule 200 §407] [locally enforceable only]

Where the Control Officer requires the Permittee to perform air quality impact modeling, the Permittee shall perform the modeling in a manner consistent with the "Guideline on Air Quality Models (Revised)" (EPA-450/2-78-027R, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, July 1986) and "Supplement B to the Guideline on Air Quality Models" (U.S. Environmental Protection Agency, September 1990). Both documents shall be referred to hereinafter as "Guideline", and are adopted by reference. Where the person can demonstrate that an air quality impact model specified in the guideline is inappropriate, the model may be modified or another model substituted if found to be acceptable to the Control Officer.

13. MONITORING / TESTING:

- A. The Permittee shall monitor, sample, or perform other studies to quantify emissions of regulated air pollutants or levels of air pollution that may reasonably be attributable to the facility if required to do so by the Control Officer, either by Permit or by order in accordance with County Rule 200 §309.

[County Rule 200 §309] [SIP Rule 41]

- B. Except as otherwise specified in these Permit Conditions or by the Control Officer, the Permittee shall conduct required testing used to determine compliance with standards or permit conditions established under the County or SIP Rules or these Permit Conditions in accordance with County Rule 270 and the applicable testing procedures contained in the applicable Rule, the Arizona Testing Manual for Air Pollutant Emissions or other approved USEPA test methods.

[County Rule 200 §408] [County Rule 210 §302.1.c] [County Rule 270 §§300 & 400]
[SIP Rule 27]

- C. The owner or operator of a permitted source shall provide, or cause to be provided, performance testing facilities as follows:

- 1) Sampling ports adequate for test methods applicable to such source.
- 2) Safe sampling platform(s).
- 3) Safe access to sampling platforms(s).
- 4) Utilities for sampling and testing equipment.

[County Rule 270 §405] [SIP Rule 42]

14. PERMITS:

- A. BASIC: [County Rule 210 §302.1h(3)]

This Permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

- B. DUST CONTROL PLAN REQUIREMENTS:

(NOTE: If the Permittee engages in or allows any routine dust generating activities at the facility, the Permittee shall apply to have the routine dust generating activity covered as part of this Permit. Nonroutine activities, such as construction and revegetation, require a separate Earthmoving Permit that must be obtained from the Control Officer before the activity may begin.)

- 1) The Permittee must first submit a Dust Control Plan and obtain the Control Officer's approval of the Dust Control Plan before commencing any routine dust generating operation.

[County Rule 310 §303.3] [SIP Rule 310 §303.3]

- 2) A Dust Control Plan shall not be required to play on a ball field and/or for landscape maintenance. For the purpose of this Permit Condition, landscape maintenance does not include grading, trenching, nor any other mechanized surface disturbing activities.

[County Rule 200 §305] [County Rule 310 §303.4] [SIP Rule 310 §303.4]

- 3) Any Dust Control Plan shall, at a minimum, contain all the information described in Section 304 of Rule 310.

[County Rule 310 §304] [SIP Rule 310 §304]

- 4) Regardless of whether an approved Dust Control Plan is in place or not, the Permittee is still subject to all requirements of Rule 310 at all times

[County Rule 310 §303] [SIP Rule 310 §303]

C. PERMITS AND PERMIT CHANGES, AMENDMENTS AND REVISIONS:

[County Rule 200 §§301 & 308] [County Rule 210 §§301.4a, b, c, & 400]

- 1) The Permittee shall comply with the Administrative Requirements of Section 400 of County Rule 210 for all changes, amendments and revisions at the facility for any source subject to regulation under County Rule 200, shall comply with all required time frames, and shall obtain any required preapproval from the Control Officer before making changes. All applications shall be filed in the manner and form prescribed by the Control Officer. The application shall contain all the information necessary to enable the Control Officer to make the determination to grant or to deny a permit or permit revision including information listed in County Rule 200 §308 and County Rule 210 §§301 & 302.3.

- 2) The Permittee shall supply a complete copy of each application for a permit, a minor permit revision, or a significant permit revision directly to the Administrator of the USEPA. The Control Officer may require the application information to be submitted in a computer-readable format compatible with the Administrator's national database management system.

[County Rule 210 §§303.1a, 303.2, 405.4, & 406.4]

- 3) While processing an application, the Control Officer may require the applicant to provide additional information and may set a reasonable deadline for a response.

[County Rule 210 §301.4f]

- 4) No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

[County Rule 210 §302.1j]

D. POSTING:

- 1) The Permittee shall keep a complete permit clearly visible and accessible on the site where the equipment is installed.

[County Rule 200 §311] [SIP Rule 22F]

- 2) If a Dust Control Plan, as required by Rule 310, has been approved by the Control Officer, the Permittee shall post a copy of the approved Dust Control Plan in a conspicuous location at the work site, within on-site equipment, or in an on-site vehicle, or shall otherwise keep a copy of the Dust Control Plan available on site at all times.

[County Rule 310 §401] [SIP Rule 310 §401]

- E. PROHIBITION ON PERMIT MODIFICATION: [County Rule 200 §310]
The Permittee shall not willfully deface, alter, forge, counterfeit, or falsify this permit.

- F. RENEWAL: [County Rule 210 §§301 & 302]

- 1) The Permittee shall submit an application for the renewal of this Permit in a timely and complete manner. For purposes of permit renewal, a timely application is one that is submitted at least six months, but not more than 18 months, prior to the date of permit expiration. A complete application shall contain all of the information required by the County Rules including Rule 200 §308 and Rule 210 §§301 & 302.3.

[County Rule 210 §§301.2a, 301.4a, b, c, d, h & 302.3]

- 2) The Permittee shall file all permit applications in the manner and form prescribed by the Control Officer. To apply for a permit renewal, the Permittee shall complete the "Standard Permit Application Form" and shall supply all information, including the information required by the "Filing Instructions" as shown in Appendix B of the County Rules, which is necessary to enable the Control Officer to make the determination to grant or to deny a permit which shall contain such terms and conditions as the Control Officer deems necessary to assure a source's compliance with the requirements of the CAA, ARS and County Rules.

[County Rule 200 §§308 & 309] [County Rule 210 §301.1]

- 3) The Control Officer may require the Permittee to provide additional information and may set a reasonable deadline for a response.

[County Rule 210 §301.4f]

- 4) If the Permittee submits a timely and complete application for a permit renewal, but the Control Officer has failed to issue or deny the renewal permit before the end of the term of the previous permit, then the permit shall not expire until the renewal permit has been issued or denied. This protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit, by the deadline specified by the Control Officer, any additional information identified as being needed to process the application.

[County Rule 200 §403.2] [County Rule 210 §§301.4f & 301.9]

- G. REVISION / REOPENING / REVOCATION:

- 1) This permit shall be reopened and revised to incorporate additional applicable requirements adopted by the Administrator pursuant to the CAA that become applicable to the facility if this permit has a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this Permit is due to expire unless the original permit or any of its terms have been extended pursuant to Rule 200 §403.2.

[County Rules 200 §402.1]

Any permit revision required under this Permit Condition, 14.G.1, shall reopen the entire permit and shall comply with provisions in County Rule 200 for permit renewal (*Note: this includes a facility wide application and public comment on the entire permit*) and shall reset the five year permit term.

[County Rules 200 §402.1a(1) & 210 §302.5]

- 2) This permit shall be reopened and revised under any of the following circumstances:

- a) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the Title V permit.
- b) The Control Officer or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- c) The Control Officer or the Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

Proceedings to reopen and issue a permit under this Permit Condition, 14.G.2, shall follow the same procedures as apply to initial permit issuance and shall effect only those parts of the Permit for which cause to reopen exists.

[County Rule 200 §402.1]

- 3) This permit shall be reopened by the Control Officer and any permit shall be revised, when it is determined that standards or conditions in the permit are based on incorrect information provided by the applicant.

[County Rule 210 §407.3]

- 4) This Permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Permit revision, revocation and reissuance, or termination or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

[County Rule 210 §302.1h(3)]

H. REVISION UNDER A FEDERAL HAZARDOUS AIR POLLUTANT STANDARD:

[County Rule 210 §301.2c] [locally enforceable only]

If the Permittee becomes subject to a standard promulgated by the Administrator under Section 112(d) of the CAA, the Permittee shall, within 12 months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

I. REQUIREMENTS FOR A PERMIT:

- 1) Air Quality Permit: Except as noted under the provisions in Sections 403 and 405 of County Rule 210, no source may operate after the time that it is required to submit a timely and complete application, except in compliance with a permit issued under County Rule 210. Permit expiration terminates the Permittee's right to operate. However, if a source submits a timely and complete application, as defined in County Rule 210 §301, for permit issuance, revision, or renewal, the source's failure to have a permit is not a violation of the County Rules until the Control Officer takes final action on the application. The Source's ability to operate without a permit as set forth in this paragraph shall be in effect from the date the application is determined to be complete until the final permit is issued. This protection shall cease to apply if, subsequent to the completeness determination, the applicant fails to submit, by the deadline specified in writing by the Control Officer, any additional information identified as being needed to process the application. If a source submits a timely and complete application for a permit renewal, but the Control Officer has failed to issue or deny the renewal permit before the end of

the term of the previous permit, then the permit shall not expire until the permit renewal has been issued or denied.

[County Rule 210 §301.9]

2) Earthmoving Permit:

(NOTE: If the Permittee engages in or allows any routine dust generating activities at the facility, the Permittee shall apply to have the routine dust generating activity covered as part of this Permit. Non-routine activities, such as construction and revegetation, require a separate Earthmoving Permit that must be obtained from the Control Officer before the activity may begin.)

No person shall commence any earth moving operation or any dust generating operation without meeting the requirements of and obtaining any and all Earth Moving Equipment Permits and Permits to Operate required by County Rule 200. The provisions of this section shall not apply:

- a) During emergency, life threatening situations or in conjunction with any officially declared disaster or state of emergency;
- b) To operations conducted by essential service utilities to provide electricity, natural gas, oil and gas transmission, cable television, telephone, water, and sewerage during service outages and emergency disruptions;
- c) To non-routine or emergency maintenance of flood control channels and water retention basins.
- d) To vehicle test and development facilities and operations when dust is required to test and validate design integrity, product quality and/or commercial acceptance. Such facilities and operations shall be exempted from the provisions of this section only if such testing is not feasible within enclosed facilities.

[County Rule 310 §302] [SIP Rule 310 §302]

The Permittee shall not cause, commence, suffer, allow, or engage in any earthmoving operation that disturbs a total surface area of 0.10 acre or more without first obtaining a permit from the Control Officer. Permits shall not be required for earthmoving operations for emergency repair of utilities, paved roads, unpaved roads, shoulders, and/or alleys.

[County Rule 200 §305]

- 3) Burn Permit: The Permittee shall obtain a Permit To Burn from the Control Officer before conducting any open outdoor fire except for the activities listed in County Rule 314 §§302.1 and 302.2.

[County Rule 314] [County Rule 200 §306] [SIP Rule 314]

J. RIGHTS AND PRIVILEGES:

[County Rule 210 §302.1h (4)]

This Permit does not convey any property rights nor exclusive privilege of any sort.

K. SEVERABILITY:

[County Rule 210 §302.1g]

The provisions of this Permit are severable, and, if any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

L. SCOPE:

The issuance of any permit or permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law,

regulation or permit relieve the Permittee from obtaining a permit or permit revision required under the County Rules.

[County Rule 200 §308] [SIP Rule 22H]

Nothing in this permit shall alter or affect the following:

- 1) The provisions of Section 303 of the Act (Emergency Orders), including the authority of the Administrator of the USEPA under that section.
- 2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.
- 3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act.
- 4) The ability of the Administrator of the USEPA or of the Control Officer to obtain information from the Permittee under Section 114 of the Act, or any provision of State law.
- 5) The authority of the Control Officer to require compliance with new applicable requirements adopted after the permit is issued. [locally enforceable only]

[County Rule 210 §407.2]

M. TERM OF PERMIT: [County Rule 210 §§302.1a & 402]
This Permit shall remain in effect for no more than 5 years from the date of issuance.

N. TRANSFER: [County Rule 200 §404]
Except as provided in ARS 49-429 and County Rule 200, this permit may be transferred to another person if the Permittee gives notice to the Control Officer in writing at least 30 days before the proposed transfer and complies with the permit transfer requirements of County Rule 200 and the administrative permit amendment procedures under County Rule 210.

15. RECORDKEEPING:

A. RECORDS REQUIRED: [County Rule 100 §501] [County Rule 310 §502] [SIP Rule 40 A]
The Permittee shall maintain records of all emissions testing and monitoring, records detailing all malfunctions which may cause any applicable emission limitation to be exceeded, records detailing the implementation of approved control plans and compliance schedules, records required as a condition of any permit, records of materials used or produced, and any other records relating to the emission of air contaminants which may be requested by the Control Officer.

B. RETENTION OF RECORDS:
Unless a longer time frame is specified by these Permit Conditions, information and records required by applicable requirements and copies of summarizing reports recorded by the Permittee and submitted to the Control Officer shall be retained by the Permittee for 5 years after the date on which the information is recorded or the report is submitted

[County Rule 100 §504] [SIP Rule 40 C]

The Permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[County Rule 210 §§302.1d(2)]

C. MONITORING RECORDS: [County Rule 210 §§302.1d(1) & 305.1b(1)]

Records of any monitoring required by this Permit shall include the following:

- 1) The date, place as defined in the permit, and time of sampling or measurements;
- 2) The date(s) analyses were performed;
- 3) The name of the company or entity that performed the analysis;
- 4) The analytical techniques or methods used;
- 5) The results of such analysis; and
- 6) The operating conditions as existing at the time of sampling or measurement.

D. RIGHT OF INSPECTION OF RECORDS: [County Rule 100 §106] [SIP Rule 40 D]

When the Control Officer has reasonable cause to believe that the Permittee has violated or is in violation of any provision of County Rule 100 or any County Rule adopted under County Rule 100, or any requirement of this permit, the Control Officer may request, in writing, that the Permittee produce all existing books, records, and other documents evidencing tests, inspections, or studies which may reasonably relate to compliance or noncompliance with County Rules adopted under County Rule 100. No person shall fail nor refuse to produce all existing documents required in such written request by the Control Officer.

16. REPORTING:

NOTE: See the Permit Condition titled Certification Of Truth, Accuracy and Completeness in conjunction with reporting requirements.

A. ANNUAL EMISSION INVENTORY REPORT: [County Rule 100 §505] [SIP Rule 40 B]

Upon request of the Control Officer and as directed by the Control Officer, the Permittee shall complete and shall submit to the Control Officer an annual emissions inventory report. The report is due by April 30, or 90 days after the Control Officer makes the inventory form(s) available, whichever occurs later.

The annual emissions inventory report shall be in the format provided by the Control Officer.

The Control Officer may require submittal of supplemental emissions inventory information forms for air contaminants under ARS §49-476.01, ARS §49-480.03 and ARS §49-480.04.

B. DATA REPORTING: [County Rule 100 §502]

When requested by the Control Officer, the Permittee shall furnish to the Maricopa County Air Quality Division (Division hereafter) information to locate and classify air contaminant sources according to type, level, duration, frequency, and other characteristics of emissions and such other information as may be necessary. This information shall be sufficient to evaluate the effect on air quality and compliance with the County or SIP Rules. The Permittee may subsequently be required to submit annually, or at such intervals specified by the Control Officer, reports detailing any changes in the nature of the source since the previous report and the total annual quantities of materials used or air contaminants emitted.

C. DEVIATION REPORTING: [County Rule 210 §§302.1e & 305.1c]

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions. Unless specified otherwise elsewhere in these Permit Conditions, an upset for the purposes of this Permit Condition shall be defined as the operation of any process, equipment or air pollution control device outside of either its normal design

criteria or operating conditions specified in this Permit and which results in an exceedance of any applicable emission limitation or standard. The Permittee shall submit the report to the Control Officer by certified mail, facsimile, or hand delivery within 2 working days from knowledge of the deviation. The report shall contain a description of the probable cause of such deviations and any corrective actions or preventive measures taken. In addition, the Permittee shall report within a reasonable time of any long-term corrective actions or preventative actions taken as the result of any deviations from permit requirements.

All instances of deviations from the requirements of this Permit shall also be clearly identified in the semiannual monitoring reports required in the Specific Condition section of these Permit Conditions.

D. EMERGENCY REPORTING: [County Rule 130 §402.4]

(NOTE: Emergency Reporting is one of the special requirements which must be met by a Permittee wishing to claim an affirmative defense under the emergency provisions of County Rule 130. These provisions are listed earlier in these General Conditions in the section titled "Emergency Provisions". Since it is a form of deviation reporting, the filing of an emergency report also satisfies the requirement of County Rule 210 to file a deviation report.)

The Permittee shall, as soon as possible, telephone the Control Officer giving notice of the emergency, and submitted notice of the emergency to the Control Officer by certified mail, facsimile, or hand delivery within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

E. EMISSION STATEMENTS REQUIRED AS STATED IN THE ACT:

[County Rule 100 §503]

Upon request of the Control Officer and as directed by the Control Officer, the Permittee shall provide the Control Officer with an emission statement, in such form as the Control Officer prescribes, showing measured actual emissions or estimated actual emissions of NO_x and volatile organic compounds (VOC) from that source. At a minimum, the emission statement shall contain all information contained in the "Guidance on Emission Statements" document as described in the USEPA's Aerometric Information Retrieval System (AIRS) Fixed Format Report (AFP 644). The statement shall contain emissions for the time period specified by the Control Officer. Statements shall be submitted annually.

F. EXCESS EMISSIONS REPORTING: [County Rule 140 §500] [locally enforceable only]

(NOTE: This reporting subsection is associated with the requirements listed earlier in these General Conditions in the section titled "Excess Emissions".)

- 1) The owner and/or operator of any source shall report to the Control Officer any emissions in excess of the limits established by the County or SIP Rules or by these Permit Conditions. The report shall be in two parts as specified below:
 - a) Notification by telephone or facsimile within 24 hours of the time when the owner and/or operator first learned of the occurrence of excess emissions that includes all available information from paragraph 2) of this Permit Condition.
 - b) Detailed written notification by submission of an excess emissions report within 72 hours of the notification required by paragraph 1) a) of this Permit Condition.
- 2) The excess emissions report shall contain the following information:
 - a) The identity of each stack or other emission point where the excess emissions occurred;

- b) The magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
 - c) The time and duration or expected duration of the excess emissions;
 - d) The identity of the equipment from which the excess emissions emanated;
 - e) The nature and cause of such emissions;
 - f) The steps taken, if the excess emissions were the result of a malfunction, to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;
 - g) The steps that were or are being taken to limit the excess emissions; and
 - h) If this Permit contains procedures governing source operation during periods of startup or malfunction and the excess emissions resulted from startup or malfunction, a list of the steps taken to comply with the Permit procedures.
- 3) In the case of continuous or recurring excess emissions, the notification requirements of this Permit Condition shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in the notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period or changes in the nature of the emissions as originally reported shall require additional notification pursuant to paragraphs 1) and 2) of this Permit Condition.

G. OTHER REPORTING:

[County Rule 210 §302.1h(5)]

The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator of the USEPA along with a claim of confidentiality as covered elsewhere in these Permit Conditions.

17. RIGHT TO ENTRY AND INSPECTION OF PREMISES:

[County Rule 100 §105] [County Rule 210 §305.1f] [SIP Rule 43]

The Control Officer, during reasonable hours, for the purpose of enforcing and administering County Rules or any provision of ARS relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under ARS §49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.

The Permittee shall allow the Control Officer or his authorized representative, upon presentation of proper credentials and other documents as may be required by law, to:

- A. Enter upon the Permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;
- B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- C. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and
- E. To record any inspection by use of written, electronic, magnetic, and photographic media.
[Locally enforceable only]

SPECIFIC CONDITIONS:

18. ALLOWABLE EMISSIONS LIMITATIONS

Facility-Wide Requirements

- A. The Permittee shall not allow overall emissions from the facility to be emitted into the atmosphere in excess of any of the following limits:

[County Rule 210 §301.8b(4)]

| | Daily Emission Limits | Rolling Twelve Month Emission Limits* |
|---|-----------------------|--|
| Total Volatile Organic Compounds (VOCs) | 393 pounds | 58.9 tons |
| Particulate Matter 10 microns or smaller (PM10) | | 3 tons |
| Styrene | 331 pounds | 49.7 tons |
| Methanol | 8 pounds | 1.5 tons |
| Toluene | 30 pounds | 3 tons |
| Methylene Chloride | 120 pounds | 2.8 tons |

* The rolling twelve-month emissions shall be calculated by summing the total emissions over the most recent twelve calendar months.

B. Opacity

- 1) The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20 percent opacity, except as provided in County Rule 300 §302.

[County Rule 300 §301][locally enforceable only]

- 2) Except as otherwise provided in Regulation I, Rule 4, Exceptions, the opacity of any plume or effluent from any source of emissions, other than uncombined water, shall not be greater than 40 percent opacity as determined by Reference Method 9 in the Arizona Testing Manual.

[SIP Rule 30]

C. Particulate Matter

- 1) The Permittee shall not discharge or cause or allow the discharge of particulate matter emissions into the ambient air from any affected operation in excess of the allowable hourly emission rate determined by the following equation:

$$E = 3.59 P^{0.62} \quad (P = \text{less than or equal to } 30 \text{ tons/hr})$$

where:

E = Emissions in pounds per hour, and

P = Process weight rate in tons per hour.

[County Rule 311 §301.1][SIP Rule 311 §301.1]

- 2) The total process weight from all similar operations at a facility, plant, or premises shall be used for the determination of the maximum allowable emissions of particulate matter.

[County Rule 311 §302][SIP Rule 311 §301.1]

19. OPERATIONAL LIMITATIONS AND STANDARDS

A. Facility-Wide Operational Requirements

- 1) Material Limitations: The Permittee shall limit:
 - a) The styrene content of the resin in pounds of neat resin weight (without filler) as applied to no more than 34% by weight,
 - b) The styrene content of the gelcoat to no more than 50% by weight, and,
 - c) The VOC content of the adhesive used for laminate blank shop production to no more than 3.4% by weight.

[County Rule 241 §301]

- 2) Equipment Cleanup: The Permittee shall not use any liquid materials containing more than 10 percent volatile organic compounds for the cleanup of equipment unless:
 - a) The used cleaning liquids are collected in a container which is closed when not in use and is disposed of in a manner such that volatile organic compounds are not emitted into the atmosphere, or
 - b) The equipment is disassembled and cleaned in a solvent vat, which is closed when not in use, or cleaning is done by other methods, approved in writing by the Control Officer, which limit evaporation.

[County Rule 330 §305]

- 3) VOC Containment and Disposal:
 - a) The Permittee shall not store, discard, or dispose of VOC or VOC-containing material in a way intended to cause or to allow the evaporation of VOC to the atmosphere. Reasonable measures shall be taken to prevent such evaporation which include but are not limited to the following:
 - (1) All materials from which VOC can evaporate, including fresh solvent, waste solvent and solvent-soaked rags and residues, shall be stored in closed containers when not in use; and
 - (2) Such containers one gallon and larger shall be legibly labeled with their contents; and
 - (3) Records of the disposal/recovery of such materials shall be kept. Records of hazardous waste disposal shall be kept in accordance with hazardous waste disposal statutes.

[County Rule 330 §306][County Rule 331 §301.1]

- b) If any cleaning-solvent escapes from a container, the Permittee shall wipe up or other wise remove immediately if in accessible areas and for areas where access is not feasible during normal production, remove as soon as reasonably possible.
- c) All marble casting machines shall have all openings, doors and shrouds closed whenever possible.

[County Rule 210 §302.1c]

- 4) Gaseous and Odorous Emissions: The Permittee shall not emit gaseous or odorous air contaminants from equipment, operations, or premises under his control in such quantities or concentrations as to cause air pollution.
[County Rule 320 §300][SIP Rule 32]
 - 5) Material Containment Required: Materials including, but not limited to, solvents or other volatile compounds, paints, acids, alkalies, pesticides, fertilizer and manure shall be processed, stored, used and transported in such a manner and by such means that they will not unreasonably evaporate, leak, escape or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such control methods, devices or equipment shall be mandatory.
[County Rule 320 §302][SIP Rule 32]
 - 6) Stack Requirements: Where a stack, vent or other outlet is at such a level that air contaminants are discharged to adjoining property, the Control Officer may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet to a degree that will adequately dilute, reduce or eliminate the discharge of air contaminants to adjoining property.
[County Rule 320 §303] [SIP Rule 32]
- B. Operational Requirements for Dust Generating Equipment Vented Outdoors
[County Rule 210 §302.1c][County Rule 311 §306][SIP Rule 311 §306]
- 1) The grinding booth operations shall be conducted with exhaust vented, without bypass, through the AGET baghouse or an equivalent approved control device.
 - 2) The laminate blank shop woodworking equipment shall be conducted with exhaust vented, without bypass, through the Murphy-Rodgers MRM-12-4D baghouses or equivalent approved control devices.
 - 3) The laminate finish shop woodworking equipment shall be conducted with exhaust vented, without bypass, through the MRC-10-C-10-D and MRC-10-C-7 ½ D cyclones with bag afterfilters, or equivalent approved control devices.
 - 4) The CNC Router operation shall be conducted with exhaust vented, without bypass, through the MRM-10-2D baghouse or an equivalent approved control device.
- C. Operational Requirements for Spray Coating Equipment
- 1) The Permittee shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:
 - a) The Permittee shall not operate spray coating equipment outside of a building unless it is operated inside an enclosure which has at least three sides a minimum of eight feet in height and able to contain any object(s) being coated.
 - (1) For three-sided enclosures, the Permittee shall direct the spray in a horizontal or downward pointing manner so that overspray is directed at the walls or floor of the enclosure. No spraying shall be conducted within three feet of any open end and/or within two feet of the top of the enclosure.

- (2) For enclosures with three sides and a roof, or for complete enclosures, the Permittee shall direct the spray into the enclosure so that the overspray is directed away from any opening in the enclosure. No spraying shall be conducted within three feet of any open end and/or within two feet of any open top of the enclosure.

[County Rule 315 §301.1][locally enforceable only]

- b) The Permittee shall install and operate a filtering system on any spray booth or enclosure with forced air exhaust.

- (1) The filtering system shall have an average overspray removal efficiency of at least 92% by weight, as certified in writing by the manufacturer, for the type of material being sprayed.

- (2) No gaps, sags or holes shall be present in the filters and all exhaust must be discharged into the atmosphere.

[County Rule 315 §301.2][locally enforceable only]

- 2) The Permittee shall be exempt from Subsection 1) of this Permit Condition if the spray coating operation is one of the following:

- a) Spray coating of buildings or dwellings, including appurtenances and any other ornamental objects that are not normally removed prior to coating;
- b) Spray coating of facility equipment or structures which are fixed in a permanent location and cannot easily be moved into an enclosure or spray booth and which are not normally dismantled or moved prior to coating;
- c) Spray coating of objects which cannot fit inside of an enclosure with internal dimensions of 10'W x 25'L x 8'H;
- d) Enclosures and spray booths and exhausts located entirely in a completely enclosed building, providing that any vents or openings do not allow overspray to be emitted into the outside air; or
- e) Coating operations utilizing only hand-held aerosol cans.

[County Rule 315 §302][locally enforceable only]

- 3) Training: The Permittee shall fully train all individuals before they are allowed to operate any spray coating equipment. Training shall include, at a minimum, proper application techniques, cleaning procedures, and equipment setup and adjustment as well as recordkeeping, VOC containment and disposal requirements. Refresher training shall be given at least annually.

[County Rule 210 §301.8b(4)][locally enforceable only]

D. Operational Requirements for Baghouses

[County Rule 210 §302.1.c and e][Rule 311 §.306][SIP Rule 311 §306]

- 1) The AGET and Murphy-Rodgers MRM-12-4D and MRM-10-2D baghouses and the Murphy-Rodgers MRC-10-C-10-D and MRC-10-C-7 1/2 D cyclones and bag afterfilters shall be operated and maintained in accordance with the requirements of the Operations and Maintenance (O&M) Plan most recently approved in writing by the Control Officer.

- 2) The Permittee shall operate the baghouses and cyclones with bag afterfilters at or above a 99% removal efficiency for 10 micron particles.

- 3) The baghouses shall be considered to be operating within the applicable parametric range when the monitoring device required by Permit Condition 20.B measures a pressure differential within the range specified in the approved Operations and Maintenance (O&M) Plans most recently approved in writing by the Control Officer.
- 4) Measurement of a pressure differential outside of the applicable parametric range prescribed by the Operations and Maintenance (O&M) Plan most recently approved in writing by the Control Officer shall require the Permittee to investigate and take corrective action if necessary to bring the control device into proper operation.
- 5) The Permittee shall record the period of measurement of a pressure differential outside the applicable parametric range prescribed by the baghouse O&M plan, the evaluation of the cause of the measurement, and corrective actions taken, or a finding that the pressure differential returned to the applicable parametric range without action by the Permittee. Operation outside of the applicable parametric range that is due to a process or control device malfunction shall be recorded as such.
- 6) If the frequency of measurement of a pressure differential outside the applicable pressure differential range prescribed by the baghouse O&M plan or other information indicate that the baghouse is not being operated in a manner consistent with good air pollution practices, the Control Officer may require the Permittee to submit a Corrective Action Plan (CAP).
- 7) The Control Officer may require the CAP contain one more of the following elements:
 - a) Improved preventive maintenance practices.
 - b) Improved baghouse operating practices.
 - c) Process operation changes.
 - d) Other actions appropriate to improve baghouse performance.
 - e) Schedule for CAP implementation and periodic reporting on the progress of CAP implementation.
- 8) If the Permittee or the Control Officer determines that the pressure drop parameters for the baghouse as specified in the O&M Plan are not representative of normal and proper operation of the baghouse, the Permittee shall submit an amendment to the O&M Plan to address the necessary within 30 days of such determination. Such amendment shall be sent to the Department, to the attention of Manager, Title V Permits Group.

20. MONITORING AND RECORDKEEPING REQUIREMENTS**A. Facility-Wide Requirements****1) VOCs and HAPs**

[County Rule 210

§302.1c]

- a) *This section refers to VOC- and/or HAP-containing materials used at this facility except for gelcoats and resins.*

The Permittee shall adhere to the emissions limitations as set forth in the Allowable Emissions table by limiting the material usage of all materials that may emit HAP's or VOC's. If the emissions calculations required by Subsection c) show that emissions for total VOCs or any of the HAP compounds are at 75% or more of the limit, so as to not exceed the daily emission limits and the rolling 12-month emission limits for the entire facility, the Permittee shall calculate in advance the daily maximum material usage for all materials containing VOC's and HAPs. To determine the VOC and HAP content of each material, the Permittee shall use manufacturer-supplied data or manufacturer supplied MSDS information to support the VOC and HAP content of each material. If a range for VOC or HAP's content is given, the maximum content listed shall be assumed. All VOC and HAP content in a material shall be assumed to be emitted to the atmosphere unless the Permittee can demonstrate in advance an exception. Materials shipped for use offsite need to be recorded but are not included as site emissions. The Permittee will track materials within the following categories and any other materials which may emit VOC's and/or HAP's:

Adhesives

Lacquer Thinners

Mold Releases

Mold Cleaners

Cleaning Solvents

The Permittee has the flexibility to change material types as needed as long as the change does not result in the emission of any HAP not previously emitted and the allowable limits of this permit are not exceeded. Support data and calculations shall reflect these material changes.

- b) *Gelcoats and Resins*

Before gelcoat or resin is used, the Permittee shall calculate their daily material usage limits for gelcoat and resin. The limits shall be calculated using the following formula:

m

$$\sum_{n=1}^m (G)(\%S_G)(e.f._G) + (R_a)(\%S_R)(e.f._a) + (R_m)(\%S_R)(e.f._m) = 331$$

where,

G = daily usage limit of gelcoat in pounds.

%S_G = the percent of styrene in the gelcoat.e.f._G = the most recent gelcoat emission factor approved in writing by the control officer.R_a = daily usage limit of resin in pounds of neat resin weight (without filler) mixed in an automated mixing system.%S_R = the percent by weight of styrene in the resin.

- e.f._a = the most recent resin emission factor approved in writing by the control officer for automated mixing system.
- R_m = daily usage limit of resin in pounds of neat resin weight (without filler) mixed in buckets.
- e.f._m = the most recent resin emission factor approved by the control officer for bucket mixing (or manual mixing).
- m = the number of different mixes used during the day (24 hour period). Mix is defined as the recipe used to make resin or gelcoat that lists the unique constituents, with their concentrations, that are combined to make the resin or gelcoat.

The Permittee may then operate under these calculated daily usage limits until a change is desired in either of the following variables:

%S_G ,
 %S_R ,
 e.f._G ,
 e.f._R ,
 e.f._m, or
 m.

If the Permittee recalculates their daily material usage limits for gelcoat and resin using the above formula before changing any of the variables the Permittee may then operate using the newly calculated material usage limits.

- c) The Permittee shall monitor for compliance with the daily emission limitations of these Permit Conditions by keeping accurate usage records of all resins, gelcoats, mold releases, mold cleaners, adhesives, promoters and lacquer thinners, including products that are only used temporarily or new products. Records for each of these products shall consist of:
- (1) amount used of each per day (for polyester resins, indicate how much is hand mixed and how much is mechanically mixed)
 - (2) styrene content
 - (3) emission factor (for resins and gelcoats)
 - (4) total VOC content
 - (5) methanol content
 - (6) toluene content
 - (7) methylene chloride content.
 - (8) date and name of any new product introduced.
 - (9) date and name of any product that is no longer in use.

The Permittee shall then calculate the actual emissions of the regulated pollutants that there are limits for in the Allowable Emissions section of these Permit Conditions.

The following schedule shall be followed for calculating daily emissions:

- (1) Calculate emissions on a monthly basis and divide by the number of shifts in that month to obtain the daily emissions;

- (2) If the calculations required by Subsection b) or the paragraph above show that emissions for any of the pollutants are at 75% or more of the limit, emissions for that pollutant shall be calculated daily until the emissions are brought down to below 75% of the limit.

d) The Permittee shall demonstrate by recordkeeping the following:

- (1) that the daily material usage limits for resin and gelcoat were calculated prior to usage,
- (2) that the daily material usage limits for resin and gelcoat were recalculated prior to any changes in any variable in the daily material usage limit formula in these Permit Conditions.
- (3) that the daily material usage limits for materials containing VOC's and HAP's other than in resin and gelcoat were calculated prior to usage, as required by subsection a).

Recordkeeping shall include actual dated copies of the calculations made including: the whole daily material usage limit formula, the variables and their values clearly listed, and the calculated values of the daily material usage limits for resin and gelcoat.

- e) The Permittee shall keep accurate records of the rolling twelve month total allowable emission calculated monthly using the data from the most recent twelve calendar months.

- 2) PM_{10} [County Rule 210 §302.1c]
The rolling 12 month PM_{10} emissions shall be calculated by summing the PM_{10} emissions over the most recent complete 12 months. Monthly PM_{10} emissions shall be calculated according to the following:

$$PM_{10} = S_R \times EF$$

Where:

PM_{10} = PM_{10} emissions

S_R = Weight of sawdust removed each month

EF = County approved emission factor used in permit application or approved in writing by the Department after this Permit has been issued specifically for the purpose of demonstrating compliance with the requirements of this permit.

The Permittee shall keep on site records of the number of barrels removed from the facility each month.

- 3) Odor Log [County Rule 210 §302.1.c.(2)] [locally enforceable only]
The Permittee shall maintain a log of complaints of odors detected off-site. The log shall contain a description of the complaint, date and time that the complaint was received, and if given, name and/or phone number of the complainant. The logbook shall describe what

actions were performed to investigate the complaint, the results of the investigation, and any corrective actions that were taken.

4) Material Records

[County Rule 330 §503][County Rule 331 §501.1a][SIP Rule 331 §501]

The Permittee shall keep the following records for five years and shall make them available to the Control Officer upon request:

- a) Current List: Maintain a current list of coatings, adhesives, makeup solvents, and any other VOC-containing materials; state the VOC content of each in pounds per gallon or grams per liter. VOC content shall be expressed less water and non-precursor compounds for materials which are not used for cleaning or cleanup.
- b) Monthly Usage Records: Maintain monthly records of the amount of each coating; adhesive; makeup solvent; solvent used for surface preparation, for cleanup, and for the removal of materials; and any other VOC-containing materials used.
- c) Discarded Materials: Maintain records of the type, amount, and method of disposing of VOC-containing materials on each day of disposal.

5) Woodworking Equipment and Marble Finishing Equipment

[County Rule 210 §302.1c]

The Permittee shall maintain a log with all the currently existing woodworking equipment and marble finishing equipment. The log shall be updated every time a piece of equipment is added to or removed from the facility. The log shall contain a description of the piece of equipment including the name of the equipment, the manufacturer name and model number, the horsepower and the date the equipment was added or removed.

B. Monitoring and Recordkeeping Requirements for Baghouses

[County Rule 210 §302.1.c and e][Rule 311 §501][SIP Rule 311 §501]

- 1) The Permittee shall properly install, maintain and operate a monitoring device to measure the pressure drop across the AGET, Murphy-Rodgers MRM-12-4D and MRM-10-2D baghouses. The Permittee shall take daily reading of the pressure drop and record such readings.
- 2) The Permittee shall maintain on site manufacturer's information stating the removal efficiency of the AGET, Murphy-Rodgers MRM-12-4D and MRM-10-2D baghouses filters.

C. Monitoring and Recordkeeping Requirements for Cyclones with Bag Afterfilters:

- 1) The Permittee shall daily observe visible emissions from the cyclones with bag afterfilters to the ambient air. The Permittee shall log the visual observations, including the date and time when that reading was taken, whether or not visible emissions were present, name of the person who took the reading and any other related information.

[County Rule 300][County Rule 210 §302.1.c (1)][SIP Rule 30]

- 2) If visible emissions are observed from the cyclones with bag afterfilters, and the facility has not had a violation of an opacity standard in the 12 months preceding the observation, the Permittee shall obtain an opacity reading conducted in accordance with

EPA Reference Method 9 by a certified visible emissions (VE) reader. This reading shall be taken within 3 days of the observance of visible emissions and taken daily thereafter during each day that the unit is in operation until there are no visible emissions. If no production occurs in the three days following the observation of visible emissions, then the certified Method 9 reading shall be taken the next day that production does occur. If the problem is corrected before three days has passed, and no emissions are visible, the Permittee shall not be required to conduct the certified reading. The Permittee shall log all visual observations including the following:

- a) The date and time that a visible emissions or Method 9 reading was taken;
- b) The name of the person who took the reading;
- c) Whether or not visible emissions were present;
- d) The opacity of visual emissions determined by a Method 9 reading, if applicable;
- e) A description of any corrective actions taken, including date, if applicable; and
- f) Any other related information.

If an opacity violation has occurred at the facility in the 12 months preceding the observation of visible emissions, the required EPA Reference Method 9 reading shall be performed within one production day of the observation.

[County Rule 210 §302.1.c.(1)] [SIP Rule 31]

D. Monitoring and Recordkeeping Requirements for Opacity, Material Containment and Spray Coating

1) Daily Walkaround:

[County Rule 210 §302.1d]

The Permittee shall inspect each filter installed on a spray booth or enclosure, for gaps, sags or holes once per day.

- a) Should the Permittee observe any gaps, sags or holes in any of the filters, the Permittee shall immediately repair or replace the filter and record the name of the inspector and the location of filtering system containing the filter (if more than one spray booth).
- b) If no gaps, sags or holes are observed in any of the filters, the Permittee shall record the name of the inspector, the location of the filtering system containing the filter (if more than one spray booth), and the time and date that the filter was inspected.

2) Weekly Walkaround: The Permittee shall weekly conduct a facility walk-through and observe the following:

a) Opacity

- (1) The Permittee shall observe visible emissions from any source capable of emitting any air contaminant, other than uncombined water, to the ambient air. The Permittee shall log the visual observations, including the date and time when that reading was taken, whether or not visible emissions were present, name of the person who took the reading and any other related information.

[County Rule 300][County Rule 210 §302.1.c (1)][SIP Rule 30]

- (2) If visible emissions are observed from any device capable of emitting any air contaminant other than uncombined water, and the facility has not had a violation of an opacity standard in the 12 months preceding the

observation, the Permittee shall obtain an opacity reading conducted in accordance with EPA Reference Method 9 by a certified visible emissions (VE) reader. This reading shall be taken within 3 days of the observance of visible emissions and taken weekly thereafter during each week that the unit is in operation until there are no visible emissions. If no production occurs in the three days following the observation of visible emissions, then the certified Method 9 reading shall be taken the next day that production does occur. If the problem is corrected before three days has passed, and no emissions are visible, the Permittee shall not be required to conduct the certified reading. The Permittee shall log all visual observations including the following:

- (a) The date and time that a visible emissions or Method 9 reading was taken;
- (b) The name of the person who took the reading;
- (c) Whether or not visible emissions were present;
- (d) The opacity of visual emissions determined by a Method 9 reading, if applicable;
- (e) A description of any corrective actions taken, including date, if applicable; and
- (f) Any other related information.

If an opacity violation has occurred at the facility in the 12 months preceding the observation of visible emissions, the required EPA Reference Method 9 reading shall be performed within one production day of the observation.

[County Rule 210 §302.1.c.(1)] [SIP Rule 31]

(3) Opacity Readings

- (a) Opacity shall be determined by observations of visible emissions conducted in accordance with 40 CFR Part 60 Appendix A, Method 9.

[40 CFR 60.11.b] [County Rule 300 §501]

- (b) Opacity of visible emissions from intermittent sources as defined by County Rule 300 §201 shall be determined by observations conducted in accordance with 40 CFR Part 60 Appendix A, Method 9, except that at least 12 rather than 24 consecutive readings shall be required at 15-second intervals for the averaging time.

[County Rule 300 §502] [locally enforceable only]

b) VOC Containment

The Permittee shall observe that reasonable measures are being taken to contain and prevent evaporation of VOC to the atmosphere. These reasonable measures include, but are not limited to storing all VOC materials, fresh and waste solvent, and solvent-soaked rags in closed, properly labeled containers when not in use. The Permittee shall log the observations, including the date and time, whether reasonable measures were being taken, name of the person who took the reading, any problems observed and correction actions taken.

[County Rule 210 §302.1c]

c) Spray Coating

[County Rule 210 §302.1d]

- (1) Should the Permittee operate any spray coating equipment inside an enclosure that is located outside of a building, the Permittee shall observe spraying activity occurring in such enclosures to ensure the following:
 - (a) No spraying is conducted within three feet of any open end, or within two feet of any open top of the enclosure; and
 - (b) The spray is directed in a horizontal or downward pointing manner for three-side enclosures, or away from any opening for complete enclosures and three-sided enclosures with roofs.

This observation shall not be needed on any week when spraying in such enclosures is not conducted.

- (2) The Permittee shall inspect the facility for evidence of any spraying activity that occurred outside of a spray booth outside of a building. The Permittee shall record the results of the inspection, including the name of the person conducting the inspection and the date of the inspection.

- 3) The Permittee shall maintain on file and make available to the Control Officer upon request, a copy of the manufacturer's specifications verifying that the average overspray removal efficiency for the filter is at least 92%.

[County Rule 210 §302.1d]

- 4) The Permittee shall maintain a log demonstrating that all training requirements of these permit conditions are being met. At a minimum the log shall include, dates that training was conducted, the names of employees that attended the training, and a list of activities that each employee was trained to perform.

[County Rule 210 §302.1.c][locally enforceable only]

21. REPORTING REQUIREMENTS

**NOTE: Additional reporting requirements are found in the general conditions of this permit.*

The Permittee shall submit a semi-annual monitoring report, which shall be certified as to its truth, accuracy and completeness by a responsible official in the manner required by County Rule 210 §§301.7 and 305.1(e), and which shall contain the following information, at a minimum:

A) Emissions Calculations [County Rule 210 §302.1e]

The Permittee shall include the results of the monthly and rolling 12-month emissions calculations for each month in the six-month reporting period. The Permittee shall also include a summary of any daily emission calculations required by this permit.

B) Deviation Reporting [County Rule 210 §302.1e(1)]

The Permittee shall identify all instances of deviations from permit requirements in the semi-annual monitoring report. The Permittee shall include the probable cause of such deviations, and any corrective actions or preventative measures taken.

C) Odor Log [County Rule 210 §302.1e(1)][County Rule 320]

The Permittee shall include a copy of the portion of the odor log that covers the applicable 6 month reporting period. If no complaints were received during the reporting period, a statement to that effect may be substituted for the copy of the odor log.

D) Spray Coating [County Rule 210 §302.1e][County Rule 315]

1) If the Permittee operates spray coating equipment inside an enclosure without fixed air exhaust, the Permittee shall provide a statement certifying the following:

- a) That the enclosure has at least three sides that are a minimum of eight feet in height;
- b) That no spraying was conducted within three feet of any open end, or within two feet of any open top of the enclosure; and
- c) That the spray is directed in a horizontal or downward pointing manner for three-sided enclosures, or away from any opening for complete enclosures and three-sided enclosures with roofs.

2) If the Permittee operated spray coating equipment with a filtering system on a spray booth or enclosure with forced air exhaust, the Permittee shall provide a statement certifying the following:

- a) That each filter installed on a spray booth or enclosure was inspected for gaps, sags or holes once daily for each day that the booth was operated;
- b) That all filters that were observed to have gaps, sags or holes were immediately replaced; and
- c) Details of the make and manufacturer of each filter used as well as its overspray control efficiency.

3) The Permittee shall provide a statement certifying that no spraying occurred outside of the paint booths outside of the buildings. If such certification can not be provided, the Permittee shall identify the reasons and shall instead submit a statement detailing any corrective action taken.

- E) Training Log [County Rule 210 §302.1e(1)]
The Permittee shall provide a summary of the training conducted in the applicable 6 month reporting period. The summary shall include the dates that training was conducted, the names of employees that attended the training, and a list of activities that each employee was trained to perform.
- F) Walkaround Reporting
- 1) Visible Emissions [County Rule 210 §302.1e][County Rule 311]
 - a) Dates of any week that the required visible emissions observations were not taken, an explanation for the deviation from that monitoring requirement, and a description of any action taken to ensure that the future observations are performed, if applicable.
 - b) If visual emissions were observed during the reporting period, the following information shall be provided:
 - (1) Dates on which visible emissions were observed;
 - (2) The approximate time of the observation;
 - (3) Name of the observer;
 - (4) A description of any corrective actions taken, including date taken, if applicable; and
 - (5) If a follow-up Method 9 reading was required, the opacity of the emissions determined by Method 9 and a copy of the visual determination of opacity record showing all information required by the Method 9.
 - 2) VOC emissions [County Rule 210 §302.1e]
 - a) The Permittee shall report information found and documented during the weekly walk-through regarding the storage of VOC containing materials including:
 - (1) Weeks when no walk-through was performed and the reason.
 - (2) Instances of unnecessary VOC evaporation found and corrective actions taken.
 - (3) Any instances of materials containing more than 10 percent VOC content used in cleaning solutions.
 - b) A list of VOC-containing materials that were used at the facility for equipment cleaning during the six month period, along with the VOC content of each material.
- G) Woodworking Equipment and Marble Finishing Equipment Log
The Permittee shall include a copy of the portion of the Woodworking Equipment and Marble Finishing Equipment log that covers the applicable 6 month reporting period.
[County Rule 210 §302.1e(1)]
- H) Product Changes [County Rule 210 §302.1e(1)]
The Permittee shall include a statement listing any new VOC- and/or HAP-containing product introduced or no longer in use. The statement shall include the name of the product and the date when the change occurred.

22. NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS FOR REINFORCED PLASTIC COMPOSITES PRODUCTION REQUIREMENTS

The following permit conditions concerning the NESHAP standard for Subpart WWWW become an applicable requirement to the Permittee as of April 21, 2006.

A. AFFECTED SOURCE

- 1) The affected source for these permit conditions consists of all parts of the facility engaged in open molding, closed molding, centrifugal casting, continuous casting, polymer casting, pultrusion, sheet molding compound (SMC) manufacturing, mixing, cleaning of equipment used in reinforced plastic composites manufacture, HAP-containing materials storage, and repair operations on parts the facility manufactures.
[40 CFR §63.5790(b)][County Rule 370 §303.2]
- 2) The following operations are specifically excluded from any requirements of the NESHAP requirements of these permit conditions for reinforced plastic composites production.
 - a) Application of mold sealing and release agents
 - b) Mold stripping and cleaning
 - c) Repair of parts that were not manufactured at the facility including non-routine manufacturing of parts, personal activities that are not part of the manufacturing operations (such as hobby shops on military bases)
 - d) Prepreg materials as defined as reinforcing fabric received precoated with resin which is usually cured through the addition of heat.
 - e) Non-gel coat surface coatings
 - f) Application of putties, polyputties, and adhesives
 - g) Repair or production materials that do not contain resin or gel coat
 - h) Research and development operations as defined in section 112(c)(7) of the CAA.
 - i) Polymer casting
 - j) Closed molding operations (except for compression/injection molding)
 [40 CFR §63.5790(c)][County Rule 370 §303.2]

B. COMPLIANCE DEMONSTRATIONS

- 1) The Permittee shall comply with the following permit conditions pertaining to the NESHAP requirements for reinforced plastic composites production and the applicable work practice standards located in Table 22.3 by no later than April 21, 2006.
[40 CFR §63.5800][County Rule 370 §303.2]
- 2) The Permittee shall demonstrate initial compliance with the organic HAP emission standards of the NESHAP for reinforced plastic composites by demonstrating one of the following;
[40 CFR §63.5860] [40 CFR 63Subpart WWW Table 8] [County Rule 370 §303.2]
 - a) Meet the appropriate organic HAP emission limits for these operations as calculated using the procedures in the 40 CFR §63.5810 on a 12-month rolling average 1 year after April 21, 2006, and/or
 - b) Demonstrate that any individual resins or gelcoats not included in (a)) above, as applied, meet their applicable emission limits, or
 - c) Use the appropriate values in Table 22.4 of these permit conditions to show that the weighted average of all resins and gel coats for each resin type and application method meet the appropriate organic HAP contents.
- 3) The Permittee shall demonstrate continuous compliance with each standard that applies to the facility using the following methods;

[40 CFR §63.5900][County Rule 370 §303.2]

- a) Compliance with organic HAP emissions limits in Table 22.2 or organic HAP content limits in Table 22.4, as applicable, is demonstrated by:
 - (1) Compliance with the organic HAP emissions limits in Table 22.2 is demonstrated by maintaining an organic HAP emission factor value less than or equal to the appropriate organic HAP emissions limit listed in Table 22.2 of this permit, on a 12-month rolling average, or by including in each compliance report a statement that all resins and gel coats meet the appropriate organic HAP emissions limits: or
 - (2) Compliance with the organic HAP emissions limits in Table 22.4 is demonstrated by maintaining an average organic HAP content value less than or equal to the appropriate organic HAP contents listed in Table 22.4 of this permit, on a 12-month rolling average, or by including in each compliance report a statement that all resins and gel coats individually meet the appropriate organic HAP emissions limits
- b) Compliance with the work practice standards in Table 22.3 to these permit conditions is demonstrated by performing the work practice required for the affected source.
- c) The Permittee must report each deviation from each permit condition that is applicable. The deviations must be reported according to the requirements in 40 CFR § 63.5910.
- d) The Permittee shall meet the organic HAP emissions limits and work practice standards that are applicable.

C. ALLOWABLE EMISSIONS LIMITATIONS

The Permittee shall meet the annual average organic HAP emissions limits in Table 22.2 on a 12-month rolling average basis, or the organic HAP content limits in Table 22.4, as applicable.

[40 CFR §63.5835][County Rule 370 §303.2]

D. OPERATIONAL LIMITATIONS AND STANDARDS

- 1) The Permittee shall comply with the work practice standards specified in Table 22.3.
[40 CFR §63.5835(a)][County Rule 370 §303.2]
- 2) The Permittee shall operate and maintain the affected source in accordance with 40 CFR §63.6(e)(1)(i)

[40 CFR §63.5835(c)][County Rule 370 §303.2]

E. OPTIONS FOR MEETING STANDARDS

[40 CFR §63.5810][County Rule 370 §303.2]

The Permittee shall use one of the following methods in paragraphs 1) through 4) of this section to meet the standards for open molding operations in Table 22.2 of these permit conditions. The Permittee may use different compliance options for the different operations listed in Table 22.2. The necessary calculations must be completed within 30 days after the end of each month. The Permittee may switch between the compliance options in paragraphs 1) through 4) of this permit condition. When there is a change to an option based on a 12-month rolling average, the Permittee must base the average on the previous 12 months of data calculated using the compliance option that the Permittee is changing to, unless the previous option did not require maintaining records of resin and gel coat use. In

this case, the Permittee must immediately begin collecting resin and gel coat use data and demonstrate compliance 12 months after changing options.

- 1) Demonstrate That an Individual Resin or Gel Coat, As Applied, Meets the Applicable Emissions Limit in Table 22.2 of this Permit

[40 CFR §63.5810(a)][County Rule 370 §303.2]

- a) The Permittee shall calculate the actual organic HAP emissions factor for each different process stream within each operation type. A process stream is defined as each individual combination of resin or gel coat, application technique, and control technique. Process streams within operations types are considered different from each other if any of the following four characteristics vary: the neat resin plus or neat gel coat plus organic HAP content, the gel coat type, the application technique, or the control technique. The Permittee must calculate organic HAP emissions factors for each different process stream by using the appropriate equations in Table 22.1 to these permit conditions for open molding or site specific organic HAP emissions factors discussed in 40 CFR §63.5796. The emission factor calculation should include any and all emission reduction techniques used including any add on controls. If the Permittee is using vapor suppressant effectiveness (VSE) by conducting testing according to the procedures specified in appendix A to subpart WWWW of 40 CFR part 63.

- b) If the calculated emission factor is less than or equal to the appropriate emission limit, you have demonstrated that this process stream complies with the emission limit in Table 22.2 to this permit. It is not necessary that all the Permittee's process streams, considered individually, demonstrate compliance to use this option for some process streams. However, for any individual resin or gel coat the Permittee uses, if any of the process streams that include that resin or gel coat are to be used in any averaging calculations described in paragraphs 2) through 4) of this condition, then all process streams using that individual resin or gel coat must be included in the averaging calculations.

- 2) Demonstrate That On Average, the Permittee meets the Individual Organic Hap Emissions Limits for Each Combination of Operation Type and Resin Application Method or Gel Coat Type

Demonstrate that on average, the Permittee meets the individual organic HAP emissions limits for each unique combination of operation type and resin application method or gel coat type shown in Table 22.2 to this permit that applies to the Permittee

[40 CFR §63.5810(b)][County Rule 370 §303.2]

- a) The Permittee shall group the process streams described in permit condition 22.E.1) by operation type and resin application method or gel coat type listed in Table 22.2 to this permit and then calculate a weighted average emission factor based on the amounts of each individual resin or gel coat used for the last 12 months. To do this, sum the product of each individual organic HAP emissions factor calculated in permit condition 22.E.1)a) and the amount of neat resin plus and neat gel coat plus usage that corresponds to the individual factors and divide the numerator by the total amount of neat resin plus and

neat gel coat plus used in that operation type as shown in Equation 22.1 of this condition.

Equation 22.1

[40 CFR §63.5810][County Rule 370 §303.2]

$$\text{Average organic HAP Emissions Factor} = \frac{\sum_{i=1}^n (\text{Actual Process Stream EF}_i * \text{Material}_i)}{\sum_{i=1}^n \text{Material}_i}$$

Where:

Actual Process Stream EF_i = actual organic HAP emissions factor for process stream i, lbs/ton;

Material_i = neat resin plus or neat gel coat plus used during the last 12 calendar months for process stream_i, tons;

n = number of process streams where you calculated an organic HAP emissions factor.

The Permittee may, but is not required to, include process streams where the Permittee has demonstrated compliance as described in condition 22.E.1) of this permit, subject to the limitations described in condition 22.E.1)b) of this permit, and the Permittee is not required to and should not include process streams for which the Permittee will demonstrate compliance using the procedures in paragraph 22.E.4) of this permit.

- b) The Permittee shall compare each organic HAP emissions factor calculated in paragraph 22.E.2)a) of this section with its corresponding organic HAP emissions limit in Table 22.2 to this subpart. If all emissions factors are equal to or less than their corresponding emission limits, then the Permittee is in compliance.
- 3) Demonstrate Compliance with a Weighted Average Emission Limit
[40 CFR §63.5810(c)][County Rule 370 §303.2]

The Permittee shall demonstrate each month that each weighted average of the organic HAP emissions limits in Table 22.2 to this permit are met that apply to it. When using this option, the Permittee must demonstrate compliance with the weighted average organic HAP emissions limit for all its open molding operations, and then separately demonstrate compliance with the weighted average organic HAP emissions limit for the centrifugal casting operations. Open molding operations and centrifugal casting operations may not be averaged with each other.

- a) Each month the Permittee shall calculate the weighted average organic HAP emissions limit for all open molding operations for the facility for the last 12-month period to determine the organic HAP emissions limit the Permittee must meet. To do this, multiply the individual organic

HAP emissions limits in Table 22.2 to this permit for each open molding operation type by the amount of neat resin plus or neat gel coat plus used in the last 12 months for each open molding operation type, sum these results, and then divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding over the last 12 months as shown in Equation 22.2 of this section.

Equation 22.2

[40 CFR §63.5810][County Rule 370 §303.2]

$$\text{Weighted Average Emission Limit} = \frac{\sum_{i=1}^n (EL_i * \text{Material}_i)}{\sum_{i=1}^n \text{Material}_i}$$

Where:

EL_i = organic HAP emissions limit for operation type i, lbs/ton from Tables 22.2 to this permit;
 Material_i = neat resin plus or neat gel coat plus used during the last 12-month period for operation type i, tons;
 n = number of operations.

- b) Each month calculate the Permittee's weighted average organic HAP emissions factor for open molding. To do this, multiply the actual open molding operation organic HAP emissions factors calculated in condition 22.E.2)a) and the amount of neat resin plus and neat gel coat plus used in each open molding operation type, sum the results, and divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding operations as shown in Equation 22.3 of this section.

Equation 22.3:

[40 CFR §63.5810][County Rule 370 §303.2]

$$\text{Actual Weighted Average Organic HAP Emissions Factor} = \frac{\sum_{i=1}^n (\text{Actual Operation } EF_i * \text{Material}_i)}{\sum_{i=1}^n \text{Material}_i}$$

Where:

Actual Individual EF_i = Actual organic HAP emissions factor for operation type i, lbs/ton;
 Material_i = neat resin plus or neat gel coat plus used during the last 12 calendar months for operation type i, tons;
 n = number of operations.

- c) The Permittee shall compare the values calculated in paragraphs 3)a) and b) of this section. If each 12-month rolling average organic HAP emissions factor is less than or equal to the corresponding 12-month rolling average organic HAP emissions limit, then the Permittee is in compliance.
- 4) Meet the Organic Hap Emissions Limit for One Application Method and Use the Same Resin(s) for all Application Methods of that Resin Type.
[40 CFR §63.5810(d)][County Rule 370 §303.2]

This option is limited to resins of the same type. The resin types for which this option may be used are noncorrosion-resistant, corrosion-resistant and/or high strength, and tooling.

- a) For any combination of manual resin application, mechanical resin application, filament application, or centrifugal casting, the Permittee may elect to meet the organic HAP emissions limit for any one of these application methods and use the same resin in all of the resin application methods listed in condition 22.E.4)a). Table 22.4 to this permit presents the possible combinations based on a facility selecting the application process that results in the highest allowable organic HAP content resin. If the resin organic HAP content is below the applicable value shown in Table 22.4, the resin is in compliance.
- b) The Permittee may also use a weighted average organic HAP content for each application method described in permit condition 22.E.4)a). Calculate the weighted average organic HAP content monthly. Use Equation 22.1 except substitute organic HAP content for organic HAP emissions factor. The Permittee is in compliance if the weighted average organic HAP content based on the last 12 months of resin use is less than or equal to the applicable organic HAP contents in Table 22.4 to this permit.
- c) The Permittee may simultaneously use the averaging provisions in paragraph 2) or 3) of this condition to demonstrate compliance for any operations and/or resins that the Permittee does not include in its compliance demonstrations in paragraphs 4)a) and b) of this condition. However, any resins for which the Permittee claims compliance under the option in paragraphs 4)a) and b) of this condition may not be included in any of the averaging calculations described in paragraph 2) or 3) of this condition.
- d) The Permittee does not have to keep records of resin use for any of the individual resins where compliance is demonstrated under the option in paragraph 4)a) of this condition unless the Permittee elects to include that resin in the averaging calculations described in paragraph 4)b) of this condition.

F. MONITORING AND RECORDKEEPING REQUIREMENTS

[40 CFR §63.5797][County Rule 370 §303.2]

- 1) In order to determine the organic HAP content of resins and gel coats, the Permittee shall rely on information provided by the material manufacturer, such as manufacturers formulation data or material safety data sheets, (MSDS), or using the procedures specified in paragraphs a) through c) of this section, as applicable.

- a) Include in the organic HAP total each organic HAP that is present at 0.1 percent by mass or more for Occupational Safety and Health Administration-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds.
- b) If the organic HAP content is provided by the material supplier or manufacturer as a range, you must use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content, such as an analysis of the material by EPA Method 311 of appendix A to 40 CFR part 63, exceeds the upper limit of the range of the total organic HAP content provided by the material supplier or manufacturer, then you must use the measured organic HAP content to determine compliance.
- c) If the organic HAP content is provided as a single value, you may use that value to determine compliance. If a separate measurement of the total organic HAP content is made and is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then you still may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then you must use the measured organic HAP content to determine compliance.

2) Required Records [40 CFR §63.5915][County Rule 370 §303.2]

- a) The Permittee shall keep the following records:
 - (1) A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted
 - (2) The Permittee shall keep all data, assumptions, and calculations used to determine organic HAP emissions factors or average organic HAP contents for operations listed in Tables 22.2, and 22.4 to these permit conditions.
 - (3) The Permittee shall keep a certified statement that the facility is in compliance with the work practice requirements in Table 22.3 to these permit conditions, as applicable.
- b) The Permittee shall maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection according to 40 CFR § 63.10(b)(1).

[40 CFR §63.5920(a)][County Rule 370 §303.2]

- c) The Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR §63.5915][County Rule 370 §303.2]
- d) The Permittee shall keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR § 63.10(b)(1). You can keep the records offsite for the remaining 3 years.

[40 CFR §63.5920][County Rule 370 §303.2]

- e) The Permittee may keep records in hard copy or computer readable form including, but not limited to, paper, microfilm, computer floppy disk, magnetic tape, or microfiche.

[40 CFR §63.5920][County Rule 370 §303.2]

G. REPORTING REQUIREMENTS

1) Initial Startup Notification

The Permittee that has an initial startup before the effective date of subpart WWW shall notify the Administrator and the Control Officer in writing that the source is subject to the relevant standard. The notification, which shall be submitted not later than 120 calendar days after the effective date of subpart WWW (or within 120 calendar days after the source becomes subject to the standard), shall provide the following information:

- a) The name and address of the Permittee;
- b) The address (i.e., physical location) of the affected source;
- c) An identification of subpart WWW as a relevant standard or other requirement, that is the basis of the notification and the source's compliance date;
- d) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; and
- e) A statement of whether the affected source is a major source or an area source.

[40 CFR §63.5905(a)][County Rule 370 §303.2]

2) Notification of compliance status

- a) The Permittee shall submit to the Administrator and the Control Officer a notification of compliance status, signed by the responsible official who shall certify its accuracy, attesting to whether the source has complied with the relevant standard. The notification shall list the following--
 - (1) The methods that were used to determine compliance;
 - (2) The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - (3) The methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;
 - (4) The type and quantity of hazardous air pollutants emitted by the source (or surrogate pollutants if specified in the relevant standard), reported in units and averaging times and in accordance with the test methods specified in the relevant standard;
 - (5) If the relevant standard applies to both major and area sources, an analysis demonstrating whether the affected source is a major source (using the emissions data generated for this notification);
 - (6) A description of the air pollution control equipment (or method) for each emission point, including each control device (or method) for each hazardous air pollutant and the control efficiency (percent) for each control device (or method); and
 - (7) A statement by the Permittee as to whether the source has complied with the relevant standard or other requirements.

[40 CFR §63.5905(a)] [40 CFR §63.9 (h)] [County Rule 370 §303.2

- (8) That all cleaning materials, except styrene contained in closed systems, or materials used to clean cured resin from application equipment contain no HAP.
- (9) That all HAP-containing storage containers are kept closed or covered except when adding or removing materials, and that any bulk storage tanks are vented only as necessary for safety.
- (10) That the mixers are not actively vented to the atmosphere when the agitator is turning, except when adding materials or as necessary for safety.
- (11) That all mixer covers (if applicable) are closed during mixing except when adding materials to the mixers, and that gaps around mixer shafts and required instrumentation are less than 1 inch.
- (12) That the mixers (if applicable) are closed except when adding materials to the mixing vessels
- (13) That the facility has commenced collecting all necessary data to show compliance with these permit conditions

40 CFR §63.5860(a),(Table 9)][County Rule 370 §303.2]

- b) If the Permittee using the organic HAP emissions limit averaging option to comply with the standard, the notification of compliance status requirements must be submitted no later than 1 year plus 30 days after the facility's compliance date.

[40 CFR §63.5905(a)][County Rule 370 §303.2

- c) If the Permittee is complying by using the organic HAP content limits, application equipment requirements, or the organic HAP emissions limits other than the organic HAP emissions limit averaging to comply with the standard, the notification of compliance requirements must be submitted no later than 30 days after the facility's compliance date.

[40 CFR §63.5905(a)][County Rule 370 §303.2

- d) The notification of compliance must be postmarked on or before the day the compliance notification is due.

[40 CFR §63.5905(a)][County Rule 370 §303.2

- e) If the Permittee changes any information submitted in any notification, the Permittee must submit the changes in writing to the Administrator within 15 calendar days after the change.

[40 CFR §63.5905(b)][County Rule 370 §303.2

3) Semiannual Compliance Report

- a) The first compliance report shall cover the period beginning on April 21, 2006 and ending on December 31, 2006.

[40 CFR §63.5910(b)][County Rule 370 §303.2

- b) The first compliance report must be postmarked or delivered no later than January 31, 2007.

[40 CFR §63.5910(b)][County Rule 370 §303.2

- c) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
[40 CFR §63.5910(b)][County Rule 370 §303.2]
- d) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
[40 CFR §63.5910(b)][County Rule 370 §303.2]
- e) The Permittee may submit the first and subsequent compliance reports according to the dates the Department has established instead of according to the dates in paragraphs 4)a) through d) of this section.
[40 CFR §63.5910(b)][County Rule 370 §303.2]
- f) The compliance report must contain all the information:
 - (1) Company name and address.
 - (2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - (3) Date of the report and beginning and ending dates of the reporting period.
 - (4) If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply and there are no deviations from the requirements for work practice standards in Table 22.3 to these permit conditions, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period.
[40 CFR §63.5910(c)][County Rule 370 §303.2]
- g) For each deviation from an organic HAP emissions limitation (i.e., emissions limit and operating limit) and for each deviation from the requirements for work practice standards that occurs at the facility, the compliance report must contain the following information:
 - (1) The total operating time of each affected source during the reporting period.
 - (2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
[40 CFR §63.5910(d)][County Rule 370 §303.2]
- h) The Permittee shall report if there is an exceedance of 100 tpy of total organic HAP emissions
[40 CFR §63.5910(f)][County Rule 370 §303.2]
- i) The Permittee must report all deviations as defined in these permit conditions in the semiannual monitoring report. If the Permittee submits a compliance report pursuant to the NESHAP subpart WWW along with, or as part of, the semiannual monitoring report required by the Title V permitting requirements, and the compliance report includes all required information concerning deviations from any organic HAP emissions limitation (including any operating limit) or work practice requirement in the NESHAP subpart WWW, submission of the compliance report shall be deemed to satisfy any obligation to report the same

deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the Permittee may have to report deviations from permit requirements to the Department.

[40 CFR §63.5910(g)][County Rule 370 §303.2

- j. The Permittee shall state in the semi-annual compliance report, the new compliance option in use at the facility if the Permittee has changed compliance options since the last reporting period.

[40 CFR §63.5910(i)][County Rule 370 §303.2

TABLE 22.1: Equations to Calculate Organic HAP Emission Factors for Specific Open Molding¹

| If your operation type is a new or existing..... | And you use..... | With..... | Use this organic HAP Emissions Factor (EF) Equation for materials with less than 33 percent organic HAP (19 percent organic HAP for non-atomized gel coat) ²³ | Use this organic HAP Factor (EF) Equation for materials with 33 percent or more organic HAP (19 percent for non-atomized gel coat) ²³ |
|--|------------------------------|--|--|--|
| 1. Open molding operation..... | a. Manual resin application. | i. Non-vapor-suppressed resin. ii. Vapor- suppressed resin. | EF = 0.126 x % HAP x 2000. EF = 0.126 x % HAP x 2000 x (1 – (0.5 x VSE factor)). | EF = ((0.286 x %HAP)-0.0529)x 2000 EF = ((0.286 x % HAP)-0.0529) x 2000 x (1 – (0.5 x VSE factor)). |

¹ The equations in this table are intended for use in calculating emission factors to demonstrate compliance with the emission limits in subpart WWW. These equations may not be the most appropriate method to calculate emission estimates for other purposes. However, this does not preclude a facility from using the equations in this table to calculate emission factors for purposes other than rule compliance if these equations are the most accurate available.

² Percent HAP means total weight percent of organic HAP (styrene, methyl methacrylate, and other organic HAP) in the resin or gel coat prior to the addition of fillers, catalyst, and promoters. Input the percent HAP as a decimal, i.e., 33 percent HAP should be 0.33, not 33.

³ The VSE factor means the percent reduction in organic HAP emissions expressed as a decimal measured by the VSE test method of appendix A to subpart WWW.

⁴ This equation is based on a organic HAP emissions factor equation developed for mechanical atomized controlled spray. It may be only used for automated or robotic spray systems with atomized spray. All spray operations using hand held spray guns must use the appropriate mechanical atomized or mechanical non-atomized organic HAP emission factor equation. Automated or robotic spray systems using nonatomized spray should use the appropriate nonatomized mechanical resin application.

| | | | | |
|--|---|--|--|---|
| | b. Atomized mechanical resin application | iii. Vacuum bagging/ Closed mold curing with-out rollout. | $EF = 0.126 \times \% \text{ HAP} \times 2000 \times 0.8.$ | $EF = ((0.286 \times \% \text{ HAP}) - 0.0529) \times 2000 \times 0.8.$ |
| | | iv. Vacuum bagging / closed-mold curing without roll out. | $EF = 0.126 \times \% \text{ HAP} \times 2000 \times 0.5.$ | $EF = ((0.286 \times \% \text{ HAP}) - 0.0529) \times 2000 \times 0.5.$ |
| | | i. non-vapor-suppressed resin. | $EF = 0.169 \times \% \text{ HAP} \times 2000.$ | $EF = ((0.714 \times \% \text{ HAP}) - 0.18) \times 2000$ |
| | | ii. Vapor-suppressed resin. | $EF = 0.169 \times \% \text{ HAP} \times 2000 \times (1 - (0.45 \times \text{VSE factor})).$ | $EF = ((0.714 \times \% \text{ HAP}) - 0.18) \times 2000 \times (1 - (0.45 \times \text{VSE factor})).$ |
| | | iii. Vacuum bagging / closed-mold curing with roll out. | $EF = 0.169 \times \% \text{ HAP} \times 2000 \times 0.85.$ | $EF = ((0.714 \times \% \text{ HAP}) - 0.18) \times 2000 \times 0.85.$ |
| | | iv. Vacuum bagging / closed-mold curing with-out roll out. | $EF = 0.169 \times \% \text{ HAP} \times 2000 \times 0.55.$ | $EF = ((0.714 \times \% \text{ HAP}) - 0.18) \times 2000 \times 0.55.$ |
| | | i. Non-vapor suppressed resin. | $EF = 0.107 \times \% \text{ HAP} \times 2000.$ | $EF = ((0.157 \times \% \text{ HAP}) - 0.0165) \times 2000.$ |
| | | ii. Vapor suppressed resin. | $EF = 0.107 \times \% \text{ HAP} \times 2000 \times (1 - (0.45 \times \text{VSE factor})).$ | $EF = ((0.157 \times \% \text{ HAP}) - 0.0165) \times 2000 \times (1 - (0.45 \times \text{VSE factor})).$ |
| | c. Non-atomized mechanical resin application | iii. Closed-mold curing with roll out. | $EF = 0.107 \times \% \text{ HAP} \times 2000 \times 0.85.$ | $EF = ((0.157 \times \% \text{ HAP}) - 0.0165) \times 2000 \times 0.85.$ |
| | | iv. Vacuum bagging / closed-mold curing with-out roll-out. | $EF = 0.107 \times \% \text{ HAP} \times 2000 \times 0.55.$ | $EF = ((0.157 \times \% \text{ HAP}) - 0.0165) \times 2000 \times 0.55.$ |
| | | Non-vapor suppressed resin | $EF = 0.169 \times \% \text{ HAP} \times 2000 \times 0.77.$ | $EF = 0.77 \times ((0.714 \times \% \text{ HAP}) - 0.18) \times 2000.$ |
| | | | | |
| | d. Atomized mechanical resin application with robotic or automated spray control ⁴ | | | |
| | e. Filament application ... ⁵ | i. Non-vapor-suppressed resin. | $EF = 0.184 \times \% \text{ HAP} \times 2000.$ | $EF = ((0.2746 \times \% \text{ HAP}) - 0.0298) \times 2000.$ |
| | | ii. Vapor-suppressed resin. | $EF = 0.12 \times \% \text{ HAP} \times 2000.$ | $EF = ((0.2746 \times \% \text{ HAP}) - 0.0298) \times 2000 \times 0.65.$ |
| | f. Atomized spray gel coat application. | Non-vapor-suppressed gel coat. | $EF = 0.445 \times \% \text{ HAP} \times 2000.$ | $EF = ((1.03646 \times \% \text{ HAP}) - 0.195) \times 2000.$ |
| | g. Non-atomized spray gel coat application. | Non-vapor-suppressed gel coat. | $EF = 0.185 \times \% \text{ HAP} \times 2000.$ | $EF = ((0.4506 \times \% \text{ HAP}) - 0.0505) \times 2000.$ |
| | h. atomized spray gel coat application using robotic or automated spray. | Non-vapor-suppressed gel coat. | $EF = 0.445 \times \% \text{ HAP} \times 2000 \times 0.73.$ | $EF = ((1.03646 \times \% \text{ HAP}) - 0.195) \times 2000 \times 0.73.$ |

⁵ Applies only to filament application using an open resin bath. If resin is applied manually or with a spray gun, use the appropriate manual or mechanical application organic HAP emission factor equation.

TABLE 22.2: Organic Hap Emission Limits for Specific Open Molding, Centrifugal Casting, Pultrusion and Continuous Lamination / Casting Operations

| Operation... | And you use... | Organic HAP emission limit (lb/ton) ¹ |
|--|--|--|
| 1. Open Molding - CR/HS | a. Mechanical resin application | 113 |
| | b. Filament application | 171 |
| | c. Manual resin application | 123 |
| 2. Open Molding – non-CR/HS | a. Mechanical resin application | 88 |
| | b. Filament application | 188 |
| | c. Manual resin application | 87 |
| 3. Open Molding - Tooling | a. Mechanical resin application | 254 |
| | b. Manual resin application | 157 |
| 4. Open Molding – low-flame spread/low smoke products | a. Mechanical resin application | 497 |
| | b. Filament application | 270 |
| | c. Manual resin application | 238 |
| 5. Open Molding – shrinkage controlled resins ² | a. Mechanical resin application | 354 |
| | b. Filament application | 215 |
| | c. Manual resin application | 180 |
| 6. Open Molding gel coat ³ | a. Tooling gel coating | 440 |
| | b. White/off white pigmented gel coating | 267 |
| | c. All other pigmented gel coating | |
| | d. CR/HS or high performance gel coat | 377 |
| | e. Fire retardant gel coat | 605 |
| | f. clear production gel coat | 854 |
| | | 522 |

¹ Organic HAP emissions limits for open molding and centrifugal casting are expressed as lb/ton. You must be at or below these values based on a 12-month rolling average.

² This emission limit applies regardless of whether the shrinkage controlled resin is used as a production resin or tooling resin.

³ If you apply gel coat with manual application, for compliance purposes treat the gel coat as if it were applied using atomized spray guns to determine both emission limits and emission factors. If you use multiple application methods and any portion of a specific gel coat is applied using nonatomized spray, you may use the nonatomized spray gel coat equation to calculate an emission factor for the manually applied portion of that gel coat. Otherwise, use the atomized spray gel coat application equation to calculate emission factors.

Table 22.3: Work Practice Standards

| For... | The Permittee shall... |
|--|---|
| 1. A new or existing closed molding operation using compression / injection molding. | Uncover, unwrap or expose only one charge per mold cycle per compression/injection molding machine. For machines with multiple molds, one charge means sufficient material to fill all molds for one cycle. For machines with robotic loaders, no more than one charge may be exposed prior to the loader. For machines fed by hoppers, sufficient material may be uncovered to fill the hopper. Hoppers must be closed when not adding materials. Materials may be uncovered to feed to slitting machines. Materials must be recovered after slitting. |
| 2. A new or existing cleaning operation.... | Not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin. |
| 3. A new or existing materials HAP-containing materials storage operation | Keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety. |
| 4. An existing or new mixing or new SMC manufacturing operation | Close or cover the resin delivery system to the doctor box on each SMC manufacturing machine. The doctor box itself may be open. |
| 5. An existing or new SMC manufacturing operation. | Use a nylon containing film to enclose SMC. |
| 6. All mixing or BMC manufacturing operations ¹ | Use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation. |
| 7. All mixing or BMC manufacturing operations | Close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety. Vents routed to a 95 percent efficient control device are exempt from this requirement. |
| 8. All mixing or BMC manufacturing operations. | Keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels. |

¹ Containers of 5 gallons or less may be open when mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin). For polymer casting mixing operations, containers with a surface area of 500 square inches or less may be open while active mixing is taking place.

| | |
|---|---|
| 9. A new or existing pultrusion operation manufacturing parts that meet the following criteria: 1,000 or more reinforcements or the glass equivalent of 1,000 ends of yield roving or more; and have a cross sectional area of 60 square inches or more that is not subject to the 95 percent organic HAP emission reduction requirement. | i. not allow vents from the building ventilation system, or local or portable fans to blow directly on or across the wet-out area(s), ii. not permit point suction of ambient air in the wet-out area(s) unless that air is directed to a control device, iii. use devices such as deflectors, baffles, and curtains when practical to reduce air flow velocity across the wet-out area(s), iv. direct any compressed air exhausts away from resin and wet-out area(s), v. convey resin collected from drip-off pans or other devices to reservoirs, tanks, or sumps via covered troughs, pipes, or other covered conveyance that shields the resin from the ambient air, vi. cover all reservoirs, tanks, sumps, or HAP-containing materials storage vessels except when they are being charged or filled, and vii. cover or shield from ambient air resin delivery systems to the wet-out area(s) from reservoirs, tanks, or sumps where practical. |
|---|---|

TABLE 22.4: Options Allowing the Same Resin across Different Operations that use the same Resin Type

| If the facility has the following resin type and application method..... | The highest resin weight percent organic HAP content, or weighted average weight percent HAP content, allowable for..... | Is..... |
|--|--|---------|
| 1. CR/HS resins, non-atomized mechanical | a. CR/HS mechanical | 48.0 |
| | b. CR/HS filament application | 48.0 |
| | c. CR/HS manual | 48.0 |
| 2. CR/HS resins, nonatomized mechanical | a. CR/HS filament application | 46.4 |
| | b. CR/HS manual | 46.4 |
| 3. CR/HS resins filament application | CR/HS manual | 42.0 |
| | | 38.4 |
| 4. Non- CR/HS resins, filament application | a. Non- CR/HS mechanical | 45.0 |
| | b. Non- CR/HS manual | 45.0 |
| | c. Non- CR/HS centrifugal casting | 45.0 |
| 5. Non- CR/HS resins, non-atomized mechanical | a. Non- CR/HS manual | 38.5 |
| | b. Non- CR/HS centrifugal casting | 38.5 |
| 6. Non- CR/HS resins, centrifugal casting | Non- CR/HS manual | 37.5 |
| 7. Tooling resins, non-atomized mechanical | Tooling manual | 91.4 |
| 8. Tooling resins, manual | Tooling atomized mechanical | 45.9 |

Appendix A
List of Equipment
Mesa FullyFormed, Inc.
V97-027

| | Name | Make | Model | Serial No.# | Inst. Date | Size | Type |
|----|-----------------|-----------------------|---------------------------|---------------|------------|-------------------|---------------------|
| 1 | Spray Booth | Gruber | | | | 8' x 12' | Marble Gel Coat |
| 2 | Spray System | Venus | | | | | Gel Coat |
| 3 | Spray Booth | Gruber | | | | 10'x 14' | Marble Gel Coat |
| 4 | Spray System | Venus | | | | | Gel Coat |
| 5 | Casting Machine | ADM | Logo 8/15 | | | 15 Kg/min | DHS Polymer |
| 6 | Casting Machine | ADM | JU-2000 | | | 16 Kg/min | Polymer |
| 7 | Autocaster | Gruber | 150100 | | | | |
| 8 | Baghouse | AGET | | | | 9000 CFM | Multi-bag |
| 9 | Spray Booth | | | | | 5' x 6' | Fully Enclosed Glue |
| 10 | Heat Tunnel | Midwest | | | | | |
| 11 | Heat Tunnel | Dynamics | | | | | |
| 12 | Baghouse | Murphy-Rodgers | MRM-12-4D | | | 3900 CFM | 49-bag |
| 13 | Baghouse | Murphy-Rodgers | MRM-12-4D MRC-10-C-7 ½ | | | 3900 CFM | 49-bag |
| 14 | Cyclone | Murphy-Rodgers | D MRC-10-C-10 | | | 2000 | 2-Bag afterfilter |
| 15 | Cyclone | Murphy-Rodgers | D | | | 2400 CFM | 4-Bag afterfilter |
| 16 | Baghouse | Murphy-Rodgers | MRM-10-2D | | | | 30-bag |
| 17 | Autocaster | Gruber | Economizer | 353 | October-04 | 40-60 lbs./min | |
| 18 | Autocaster | Gruber | Economizer | 344 | March-06 | 40-60 lbs./min | |
| 19 | Belt Sander | Power-matic | | 13 130690 | | 2.5 hp | |
| 20 | 15" Sander | Gruber | | | | 8.5 hp | |
| 21 | Table Saw | Power-matic | | | | 5.0 hp | 10" Blade |
| 22 | Gang Rip Saw | SCMI | M-2 | AB28307/70414 | | 42 hp | (7) 12" Blade |
| 23 | Core Machine | Midwest Automation | Corfab1520 | | | 20 hp | 2 blade 3 router |

| | | | | | | | |
|----|-------------------|------------------|---------------|----------|------|-------------------------|---------------------------------|
| | Post Forming | Midwest | Roll-a-matic | | | | 4 heaters, 3860 W, 2 routers, 1 |
| 24 | Machine | Automation | 2920 | | | | saw |
| 25 | Vertical Pane Saw | Safety Speed Cut | 6400 | F4-84 | | 2.5 hp | 7.25" blade |
| 26 | Top Saw | Unique | 42 | 3299463 | 1993 | 7.5 hp | 20" blade |
| 27 | Top Saw | Evans Machine | EXY-Mitre | | | 5 hp | 16" Blade |
| 28 | Top Saw | Evans Machine | EXY-Mitre | | | 3 hp | 16" Blade |
| 29 | Table Saw | Power-matic | 55 | 7866021 | | 5 hp | 10" Blade |
| 30 | Table Saw | Power-matic | 66 | 34551448 | | 5 hp | 10" Blade |
| 31 | Overhead Router | Evans Machine | 2476 | 6181102 | | 5 hp | |
| 32 | Table Saw | Delta | 34-814 | 92K96811 | 1992 | 5 hp | 5" blade |
| 33 | Gang Rip Saw | Custom | | | 1992 | 15 hp | (5) 5" blade |
| 34 | V-Groover #208 | A&S Machinery | 7X7-12G | 41398 | 1998 | 5 & 10 hp | Hydrolic |
| 35 | Chop Saw | Delta | 34-080 | K-9117 | 1991 | 1.5 hp | 10" Blade |
| 36 | Chop Saw | Delta | 34-081 | K-9452 | 1994 | 1.5 hp | 10" Blade |
| 37 | Chop Saw | Delta | 34-082 | K-9117 | 1991 | 1.5 hp | 10" Blade |
| 38 | Chop Saw | Delta | 34-083 | K-9452 | 1994 | 1.5 hp | 10" Blade |
| 39 | Miter Saw | Delta | 7700 | 28614 | 1995 | 1.5 hp | 10" Blade |
| | | Vinyl | | | | | |
| 40 | CNC Router | Technologies | Conquest 1272 | | | 9 hp saw, 0.75 hp drill | |
| | In line | | | | | | |
| 41 | Thermoformer | Kiefer | | | | 15 hp | |
| 42 | Grinder | Foremost | MS-28 | | | 2-15 hp motors | |

Technical Support Document (TSD)

Mesa Fully Formed, Inc.

Permit Number: V97-027

November 22, 2002

I. COMPANY DESCRIPTION

Mesa Fully Formed manufactures kitchen and bath countertops, sinks, bathtubs and shower walls. The major manufacturing processes at Mesa Fully Formed are the fabrication of cultured marble products, laminate/Corian countertops, and assembly of products. Mesa Fully Formed was first permitted in November of 1994 (Permit 94-0124).

Company Information:

Facility Name: Mesa Fully Formed, Inc.

Mailing Address: 1111 S. Sirrine St.

Mesa, AZ 85210-8733

Facility Address: 1111 S. Sirrine St., 1123 S. Sirrine St., 1110 S. Sirrine St., 1111 S. Lewis St.,
1110 S. Lewis St.

Mesa, AZ 85210-8733

II. APPLICABLE REQUIREMENTS

A. Facility-wide Emission limits from Installation and Unitary Permits (Permit Condition 18.A)

Table 1: Facility-Wide Emissions Limits

| | Daily Emission Limits | *Rolling 12 - Month Emission Limits |
|---|-----------------------|-------------------------------------|
| Total Volatile Organic Compounds (VOCs) | 393 pounds | 58.9 tons |
| PM ₁₀ | | 3 tons |
| Styrene | 331 pounds | 49.7 tons |
| Methanol | 8 pounds | 1.5 tons |
| Toluene | 30 pounds | 3 tons |
| Methylene Chloride | 120 pounds | 2.8 tons |

* The rolling twelve month emissions shall be calculated by summing the total emissions over the most recent twelve calendar months.

1. Discussion

a) VOC, Styrene, Methanol, Toluene Emission Limits

The rolling 12-month and daily emission limits of Permit V97-027 remain the same as previously permitted limits (Minor 9-11-00-01 to Permit #940124) for the facility.

b) Non-precursor organic compounds

Previous permitted limit for Non-precursor Organic Compounds (150 lbs/day, 25 tpy) does not appear on Permit V97-027 as this was previously regulated by MCESD Rule 241 but it is no longer regulated.

c) PARTICULATE MATTER (PM)

Limits for PM no longer appear on Permit V97-027 since the permit contains limits for the regulated criteria pollutant PM₁₀.

d) PM₁₀

Mesa Fully Formed had previous PM₁₀ limits of 85 lbs per day and 15 tons per year. This limit was previously put in the permit so the source would not exceed the BACT threshold. This sources records indicate their emissions are much lower than that. A new annual limit has been determined to allow for operational flexibility and to eliminate the need for administrative revisions. Based on this low annual limit, no daily limit was deemed necessary.

e) Methylene Chloride

The previous annual limit for Methylene Chloride has been changed to reflect the Potential to Emit calculated by the source for this pollutant. The previous limit would have exceed the annual Arizona Ambient Air Quality Guideline since it was lowered in 1999 for this particular pollutant.

2. Monitoring for Compliance with Facility-wide Emissions Limitations

- a) The Permittee is required to monitor for compliance with this permit condition by calculating and recording in advance the daily maximum material usage limits for all materials containing VOC's and HAP's (**Permit Condition 20.A.1a)** and **b)**). For these calculations, it will be assumed that all VOC and HAP content is emitted to the atmosphere except for polyester resins. For the resins used in the casting machines, only 1% of the available styrene is assumed to evaporate, and for resins mixed in buckets, 2%.. For all other resins and gelcoats, the Permittee shall use the emission factors listed on the MCESD "Emissions Inventory Help Sheet for Polyester Resin Applications." To reduce the amount of calculations done daily, the Permittee is only required to track materials in the categories specified in **Permit Condition 20.A.1a)**, since these are materials used in large quantities at the facility. The tracking of catalysts for the purposes of calculating emissions is not necessary. Catalysts only make up 1% to 2% of the resin or gelcoat material and they consist of a solution of methyl ethyl ketone peroxide dissolved in dimethyl phthalate (DMP). Organic peroxides do not result in measurable VOC emissions, and DMP, which is both a VOC and a HAP, has an extremely low vapor pressure resulting in practically no evaporation at room temperature. The formula used for this daily calculation for emissions from the gelcoat and resin (VOCs and styrene) is:

m

$$\sum_{n=1} (G)(\%S_G)(e.f._G) + (R)(\%S_R)(e.f._R) + (R_m)(\%S_R)(e.f._m) = 331$$

where,

G = daily usage limit of gelcoat in pounds.

%S_G = the percent of styrene in the gelcoat.

e.f._G = the most recent gelcoat emission factor approved in writing by the control officer.

- R = daily usage limit of resin in pounds of neat resin weight (without filler) mixed in an automated mixing system.
- %S_R = the percent by weight of styrene in the resin.
- e.f._R = the most recent resin emission factor approved in writing by the control officer for automated mixing system
- R_m = daily usage limit of resin in pounds of neat resin weight (without filler) mixed in buckets.
- e.f._m = the most recent resin emission factor approved by the control officer for bucket mixing (or manual mixing).
- m = the number of different mixes used during the day (24 hour period). Mix is defined as the recipe used to make resin or gelcoat that lists the unique constituents, with their concentrations, that are combined to make the resin or gelcoat.

This formula was developed to offer the Permittee some flexibility on the resins and gelcoats they used, since the styrene content may vary throughout the year depending on temperatures.

All other VOC and HAP emissions will be calculated using the manufacturer-supplied data or MSDS information to support the VOC and HAP content of each material.

The source is not limited to the use of automated mixers. They can still use buckets as a method for mixing as long as their records show that they are still operating under their limits. Records of their usage (**Permit Condition 20.A.1.c**) and calculations will show the quantity of resin hand-mixed vs. machine-mixed.

The Permittee has elected to comply with County 241 §301, which requires best available control technology (BACT), by limiting the styrene content in the resin and gelcoats, and by using a water-based adhesive. (**Permit Condition 19.A.2**) These limits were previously in this source's permit, but the styrene content limit for the gelcoats has been changed from 51% to 50% since the source's Title V application indicates they have implemented such measure.

- b) Due to the relative stability of production at this facility, and the fact that they will pre-calculate emissions before each day of operations, daily calculations of emissions of VOC, styrene, methanol, toluene and methylene chloride will only be required (**Permit Condition 20.A.1.c**) when they emit 75% or more of the daily limit for each pollutant. Daily calculations will be required until production falls once again below 75%. Until production reaches that limit, the source will only be required to calculate monthly emissions, and from those obtaining daily by dividing by the number of shifts that month. Actual emissions will be calculated using usage records of all the resins, gelcoats, mold releases, mold cleaners, adhesives, promoters and lacquer thinners used.
- c) PM₁₀ emissions will be calculated (**Permit Condition 20.A.2**) based on tons of sawdust removed each month. The tons of sawdust removed each month will be calculated by multiplying the number of barrels emptied each month by the weight of the sawdust in each bin. The total weight of sawdust removed will be multiplied by a County approved emission factor. The emission factor currently approved for this Permittee to use in calculations, is the FIRE database bin vent and bin loadout emission factor, which is 1.78 lb/ton (0.58 bin vent + 1.2 bin loadout). If the Permittee would like to use another County approved factor for the monitoring and recordkeeping, they will have to request a written approval for the use of such emission factor. This is to allow the change of emission factors used for

calculations, if new and more appropriate factors were to surface, without having to revise the permit, and at the same time disallowing the source from jumping back and forth between emission factors for convenience.

Particulate matter emissions from the spray booths based on best engineering estimates contain little or no PM₁₀, and will not be included in the calculations.

The PM₁₀ emission limit was determined assuming the baghouses and the cyclones with bags are operating properly, within the pressure drops as indicated in the O&M plans (**Permit Condition 19.D.3**), and at a minimum of 99% removal efficiency (**Permit Condition 19.D.2**). As such, Mesa Fully Formed is required (**Permit Condition 19.D.1**) to operate its baghouses and cyclone/bag systems in accordance with the O&M plans most recently approved in writing by the Control Officer.

The pressure drop across the baghouses will be monitored and recorded daily (**Permit Condition 20.B.1**). If the baghouse is found to be operating outside of the operating range specified in the baghouse O&M Plan, the Permittee will investigate the cause of the reading, and record the result of the investigation and any corrective action taken, or a finding that the pressure drop returned to the specified operating range by itself. (**Permit Condition 19.D.4 and 5**)

If there are indications that the baghouses are being operated contrary to good engineering practice the Control Officer may require the submittal of a Corrective Action Plan (CAP) in accordance with **Permit Conditions 19.D.6 and 7**). The Control Officer retains the right to issue compliance notifications at his discretion.

B. County Rule 300 - Opacity Limits (**Permit Condition 18.B**)

1. Discussion

County Rule 300 restricts visible emissions from any source to 20% opacity, other than emissions of uncombined water. County Rule 300 and the 20% opacity limitation of these permit conditions are locally enforceable only. SIP Rule 30 and the 40% opacity limitation of these permit conditions are federally enforceable.

2. Monitoring for Compliance with Opacity Limits

Because all woodworking equipment vented outdoors is required to pass through an approved Emission Control System, visible emissions are not expected from the facility. The Permittee will monitor for compliance with the opacity requirements of this permit by performing a weekly walk around the outside of the facility, looking for visible emissions from any source capable of visible emissions other than uncombined water. (**Permit Condition 20.D.2a(1)**) An important part of this inspection should be the baghouses and cyclones with bag afterfilters. This requirement is intended to regulate the opacity from sources that vent outdoors.

If emissions are observed, and the Permittee has not had an opacity violation in the 12 months preceding the observation, then the Permittee is required to obtain an EPA Method 9 reading by a certified reader within 3 days of the observation. However, if the Permittee takes corrective action and the visible emissions are eliminated before the end of the third day, or if the emissions do not persist and no problem can be identified, the Method 9 reading will not be required. The Permittee is required to document any corrective action taken to reduce or eliminate emissions. If the Permittee has had an occurrence of visible emissions with an opacity of greater than 20%, at any time in the

12 month period preceding the observation, then a certified Method 9 reading is required within 24 hours of the observation. **(Permit Condition 20.D.2)a)(2))**

A certified Method 9 reading of greater than 20% opacity at any time constitutes a violation of the opacity limitations of the Permit, regardless of whether visible emissions have persisted for three subsequent days.

C. County Rule 311- Particulate Matter **(Permit Condition 18.C)**

1. Discussion

- a) The facility is subject to County Rule 311, Particulate Matter from Process Industries, which imposes a cap on hourly emissions of particulate matter based on the process weight of material at the facility. The facility does not process more than 60,000 pounds per day of material, therefore, the applicable requirement is County Rule 311 §301.1, with the following process weight rate equation:

$$E = 3.59P^{0.62}$$

Where:

E = Emissions in pounds per hour, and

P = Process weight rate in tons per hour.

Also applicable are County Rule 311 §§305 and 306, which allow the Permittee to comply with the particulate matter standard by operating an approved "emission control system", with an approved O&M plan. Mesa Fully Formed operates 4 baghouses and 2 cyclones with bag afterfilters:

- AGET Multibag Separator/Collector with a capacity of 9000 CFM (Grind Booth)
- (2) Murphy-Rodgers MRM-12-4D 48-bag Baghouses with a capacity of 3900 CFM each (Laminate Blank Shop).
- Murphy-Rodgers MRC-10-C-10-D Cyclone with 4-Bag afterfilter with a capacity of 2400 CFM (Laminate Finish Shop).
- Murphy-Rodgers MRC-10-C-7 ½ D Cyclone with 2-Bag afterfilter with a capacity of 2000 CFM (Laminate Finish Shop).
- Murphy-Rodgers MRM-10-2D 30-bag Baghouse (CNC).

The bags' removal filtration capability is documented at 99.9% at 10 microns and larger. The baghouses shall be operated within the pressure drop range specified in the O&M plans:

- Grinding Booth: 3.5 to 4.5 inches
- Laminate Blank Shop: 0.5 to 3.0 inches
- CNC: 0.14 to 1.0 inches

2. Monitoring for Compliance with Particulate Matter Requirements

Process Weight Rate Equation

The Permittee has elected to comply with County Rule 311 through the operation of an approved emission control device. They have demonstrated that they are in compliance with the weight rate equation.. Currently, all woodworking equipment at Mesa Fully Formed that is vented outdoors is vented to an approved baghouse or cyclone/baghouse system. With the requirement to vent equipment to approved control devices with a

required efficiency (**Permit Condition 19.D.2**) of 99%, the Permittee's actual emissions from the wood and marble waste (0.61 lb/hr) are far from the limitation of the weight rate equation (3.72 lb/hr). This allows woodworking and marble finishing operations to be permitted as operations as opposed to listing each piece of equipment as would be needed on a case by case evaluation. This allows the Permittee flexibility to add/remove such equipment without having to submit a permit modification each time, as long as they stay under the limit of 370 h.p. (**Permit Condition 19.A.5**) This limit was determined by giving a buffer (approximately 3X) to the total currently at the facility. The Permittee will be required to log (**Permit Condition 20.A.5**) any addition or removal of woodworking/marble finishing equipment. This does not extend to the control devices, which will still require permit revisions to add and/or remove.

Proper operation of the baghouses will ensure that the source is well within the limits specified by the process weight rate equation. To ensure proper operation of the baghouses Mesa Fully Formed will comply with its most recently approved Operations and Maintenance (O&M) Plans and monitor the pressure drop across the baghouses and cyclones.

The Permittee is required to maintain on site manufacturer information stating the removal efficiency of the baghouse filters. (**Permit Condition 20.B.2**)

Daily emission observations shall be performed on the cyclones (**Permit Condition 20.C.1**) as a method of demonstrating compliance. Observations will be logged and a Method 9 reading will be necessary when visible emissions are observed. (**Permit Condition 20.C.2**)

D. County Rule 330 and 331 – Operational Requirements for Volatile Organic Compounds and Solvents(**Permit Conditions 19.A.3 and 19.A.4**)

Maricopa County Technical Guidance TG-002 (May 12, 1993) exempts cultured marble manufacturing operations from Rule 330 §§301 and 302. Requirements for containment and disposal are the same for both Rules 330 and 331.

1. Equipment Cleanup and VOC Containment and Disposal

When using any cleaning liquids with more than 10% VOC content, the Permittee is required (**Permit Condition 19.A.3**) to collect used liquids in a closed container, dispose of them in a manner such that no VOCs will be emitted to the atmosphere, and clean equipment in a vat which will remain closed when not in use.

The Permittee is also required (**Permit Condition 19.A.4**) to take the measures to minimize VOC emissions when storing, discarding or disposing of VOC-containing materials. For the purposes of minimizing VOC emissions the marble casting machines will have all openings closed whenever possible. Fresh and waste solvent, and solvent-soaked rags and residues shall be stored in labeled (if 1 gallon or larger) containers when not in used and records of all disposal or recovery must be kept. If any solvent escapes from a container, it must be wiped or removed immediately.

2. Monitoring for Compliance

To monitor for compliance with these requirements, the Permittee will conduct a weekly walk-through the facility and observe that reasonable measures are being taken to prevent VOC evaporation. (**Permit Condition 20.D.2b**) Observations will be logged and included in the semiannual report.

A list of all the VOC containing materials used at the facility will be kept stating the VOC content, and monthly records of usage and disposal shall be kept. (**Permit Condition 20.A.4**)

E. County Rule 320 - Odors and Gaseous Air Contaminants (**Permit Conditions 19.A.5), 19.A.6) and 19.A.7)**)

1. Discussion

County Rule 320 §§300, 302 and 303, entitled "Standards", "Material containment Required" and "Reasonable Stack Height Required", respectively, apply to this facility and have been incorporated into the permit conditions. Permit conditions based on County Rule 320 §300 are locally enforceable only.

2. Monitoring for Compliance with Rule 320 Limitations

To monitor for compliance with these requirements, the Permittee is required (**Permit Condition 20.A.3)**) to maintain an odor complaint log containing a description of the complaint, date, time and other information and submit a copy of this log with the semi-annual monitoring report.

Also, as part of a weekly facility walkaround, the Permittee is required (**Permit Condition 20.D.2)b)**) to make sure reasonable measures are being taken to prevent the evaporation of VOCs into the air, including making sure containers are properly covered when not used.

F. Operational Requirements for Dust Generating Equipment Vented Outdoors - County Rules 100 §301, 241 §302 and 311 §305 (**Permit Condition 19.B)**

Discussion

Mesa Fully Formed is required to install, operate and maintain an approved emissions control device on all woodworking equipment vented outdoors, excluding hand held equipment.

Note that if any of the baghouses is down, the Permittee may still operate equipment normally vented to the device, as long as no emissions from the piece of equipment are vented outdoors.

G. County Rule 315 - Spray Coating (**Permit Condition 19.C)**

The permit conditions associated with County Rule 315 - Spray Coating, discussed below, are locally enforceable only. Mesa Fully Formed regularly uses spray coating equipment to apply gel coating to molds which are used in the manufacturing of cultured marble. According to the application, the spray coating activity at Mesa Fully Formed is currently conducted entirely inside the building, in spray booths with forced air exhaust. The conditions for spray coating outside of buildings are included so that the Permittee may conduct such activities in the future if desired.

1. Discussion

a) Spray Coating Outside Buildings inside Enclosures (**Permit Condition 19.C.1)a)**)

If the Permittee operates any spray coating equipment outside of a building, the Permittee is required to conduct such activities inside an enclosure with at least three sides a minimum eight feet in height. In addition, it is required that spraying in such enclosures be conducted so that overspray is directed at the walls or floor of the enclosure. No spraying shall be conducted within three feet of any open end and/or within two feet of the top of the enclosure.

b) Spray Coating with Forced Air Exhaust (**Permit Condition 19.C.1)b)**)

For spray coating equipment with forced air exhaust, County Rule 315 and the Permit require the use of a filtering system with an average overspray removal efficiency of 92% by weight. The Permit also requires that there be no

gaps, sags or holes in the filters and that all exhaust is discharged to the atmosphere.

c) **Training (Permit Condition 19.C.3))**

Mesa Fully Formed is required to conduct training for employees before they operate spray coating equipment, and give refresher training annually. Proper training of all personnel was a requirement of Mesa Fully Formed's previous permit, 940124. The requirement includes training on proper application techniques, cleaning procedures, and equipment setup and adjustment as well as recordkeeping, VOC containment and disposal requirements.

This permit condition is meant to ensure that employees get trained at duties that they will perform. Therefore, if an employee will never be responsible for recordkeeping and there is no other reason for that person to learn the recordkeeping methodology, he will not need to be trained in recordkeeping.

2. **Monitoring for Compliance**

a) **Spray Coating Outside Buildings Inside Enclosures (Permit Condition 20.D.2)c)(1))**

Mesa Fully Formed will monitor for compliance with these requirements by observing spraying activity inside any enclosure located outside of a building each week to ensure that proper spraying techniques are used. The monitoring is not required any week that the Permittee does not spray in such enclosures.

b) **Monitoring for Compliance: Spray Coating with Forced Air Exhaust**

According to manufacturer's information provided in the application, the spray filters at Mesa Fully Formed have average paint removal efficiencies for various materials ranging from 98.5% to 99.5%. To monitor for compliance with the requirements for spray booths with forced air exhaust, Mesa Fully Formed will continue to maintain information indicating the removal efficiency of the spray filters on site. **(Permit Condition 20.D.3))** The Permittee shall check the filters once per day to make sure there are no gaps or holes and will replace them if necessary. **(Permit Condition 20.D.1))** Because gel coating is a main activity conducted by this facility, an inspection of the filters for gaps, sags or holes is required on each spray booth, each day the particular booth operates. Mesa Fully Formed is required to record the result of the inspections.

The Permittee shall also check weekly for evidence of spraying outside of the booth and record the result of this inspection. **(Permit Condition 20.D.4)c)(2))**

c) **Monitoring for Compliance with the Training Requirements**

Mesa Fully Formed is required to keep a log demonstrating that all training requirements are being met. **(Permit Condition 20.D.4))**

H. Reporting Requirements

Reporting requirements for Mesa Fully Formed are found in the General Conditions of the permit (Sections 1-17) and Section 21 of the permit.

Section 21 requires the submission of a semi-annual monitoring report, including deviation reporting. The report should be very detailed and should include information such as any day, week or month that any monitoring was required but not performed, a reason for those deviations, and any action taken to ensure that the monitoring will be performed in the future. Additionally, deviations from specified operating ranges or emission limitations or standards should be included, with any additional information.

III. FUTURE APPLICABLE REQUIREMENTS

Proposed regulation 40 CFR 63 Subpart WWWW , Reinforced Plastic Composites will be promulgated soon and will be applicable to Mesa Fully Formed since they are a large source for HAPs.

IV. NON-APPLICABLE REGULATIONS

1. Rule 336

According to Surface Coating Operations Rule 336 §305.1.e, gelcoating is exempt from this rule since it is a polyester coating applied to a polyester composite.

2. Compliance Assurance Monitoring (CAM) (40 CFR 64)

The application shows that Mesa Fully Formed does not use a control device to achieve compliance with any emission limitation or standard for a pollutant for which the source has potential pre-control device emissions greater than or equal to major source levels for that pollutant. Therefore, CAM is not applicable at this facility.

V. MODELING

Screen3 modeling was conducted for Styrene and Methylene Chloride according to MCESD "Air Toxics/Hazardous Air Pollutant Permitting Procedure" (2/29/00 Draft). Only these chemicals were modeled. Styrene due to its high usage at this facility, and Methylene Chloride because the Arizona Ambient Air Quality Guideline (AAAQG) has been revised to a much lower number in 1999, and this facility's previous limits would have exceeded this guideline. All three stacks from where these pollutants are emitted, the Casting Machine Stack, the Pour Gelcoat Spray Booth Stack, and the Panel Shop Booth Stack, are simplified for modeling purposes into one single stack. Hourly emissions are calculated dividing the annual limit by 8760 hours. The following parameters were used for modeling:

Styrene Concentration: 11.34 lb/hr (49.7 tpy)

Methylene Chloride Concentration: 0.64 lb/hr (2.8 tpy)

Building Dimensions: 140' L X 75' W X 15' H
Stack Dimensions: 29' Height, 34" diameter
Exit Gas Velocity: 36 fps
Exit Gas Temperature: 80°F

The results show that the AAAQGs were not exceeded.

| | STYRENE | | METHYLENE CHLORIDE (dichloromethane) | |
|------------------------------|-----------|------------|--------------------------------------|-------|
| ($\mu\text{g}/\text{m}^3$) | Predicted | AAAQG | Predicted | AAAQG |
| Max. 1-hr | 301.5 | 3500 | 16.69 | 3000 |
| 24-hr | 120.6 | 1700 | 6.68 | 800 |
| Annual | 24.12 | No listing | 1.34 | 2.2 |

- 1-Hr to 24-Hr Concentration: Multiply by 0.4
1-Hr to Annual Concentration: Multiply by 0.08

Technical Support Document (TSD)
Mesa Fully Formed, Inc.
Permit Number: V97-027 Including Minor Modification 5-13-03-01
June 23, 2003

I. COMPANY DESCRIPTION

Mesa Fully Formed manufactures kitchen and bath countertops, sinks, bathtubs and shower walls. The major manufacturing processes at Mesa Fully Formed are the fabrication of cultured marble products, laminate/Corian countertops, and assembly of products. Mesa Fully Formed was first permitted in November of 1994 (Permit 94-0124).

Company Information:

Facility Name: Mesa Fully Formed, Inc.

Mailing Address: 1111 S. Sirrine St.
Mesa, AZ 85210-8733

Facility Address: 1111 S. Sirrine St., 1123 S. Sirrine St., 1110 S. Sirrine St., 1111 S. Lewis St.,
1110 S. Lewis St.
Mesa, AZ 85210-8733

II. DESCRIPTION OF MINOR MODIFICATION

This permit revision has 3 parts:

- 1) The Permittee is requesting that the language in Permit Condition 20.A.1) be revised.

The current language reads:

"The Permittee has the flexibility to change material types as needed as long as support data and calculations reflect these material changes and no additional HAP's are involved not listed in the Allowable Emissions table."

The Permittee is attempting to substitute a product used currently that contains VOCs and Hexane, by another product which contains a smaller fraction of VOCs and Hexane. This substitution would be cause a reduction in VOC emissions, but the requirement referenced above seems to indicate they would be out of compliance for using a new product that emits Hexane. Even though Hexane is not listed in the allowable emissions table, it was being used at this facility when this permit was issued.

The above requirement seems to indicate that the Permittee must revise their permit every time a product substitution is made which involves HAPs not listed in the allowable's table, regardless of whether any emission limits are exceeded.

Since products that emit HAPs not listed on the allowable table were already in use at the time this facility was permitted, Permit Condition 20.A.1) will be revised, and will read:

"The Permittee has the flexibility to change material types as needed as long as the change does not result in the emission of any HAP not previously emitted and the allowable limits of this permit are not exceeded.."

Records required by the permit (**Permit Condition 20.A1)c)**) will show product substitution and will be used to monitor for compliance with the allowable limits.

- 2) For purposes of monitoring for compliance with the daily limits, the Permittee is required to calculate material usage prior to use on a daily basis. Once emissions for a pollutant reach 75% of the allowable limit for that pollutant, the Permittee is also required to calculate daily emissions on a daily basis.

Even though gelcoat and resin material usage is very accurately planned, usage of other VOC and HAP-containing materials may slightly vary from day to day, and it is difficult to predict prior to operations. The Permittee has submitted, as part of this minor modification, usages of VOC-containing materials (other than resins/gelcoats) that show a fair amount of consistency in the usage of these materials and that exceedances of the daily limits are unlikely.

To match the requirement of daily emissions calculations for any pollutant's emissions that reach 75% of the allowable limit, Permit Conditions 20.A.1)a), d)(3) and (4) have been modified to require the Permittee to calculate usages from VOC and HAP containing materials (except for resins and gelcoats), once any pollutant's emissions reach 75% of the allowable limit.

- 3) The Permittee is also replacing their current grinding booth by another booth. The dust collection bins from this grinding booth will be vented directly to the baghouse. Also, a new sander will be vented to the same baghouse. According to the permit, the Permittee is allowed to add woodworking equipment as long as their limit of 470 h.p.¹⁰ is not exceeded, and the equipment is vented to the baghouse. The Permittee has included calculations showing that these changes will not exceed the particulate matter limits of this permit.

¹⁰ This condition has been removed. A major source can not add and remove equipment that requires a permit unless the appropriate permitting procedure has been performed. The proper Title V permitting procedures can be found in County Rule 210.

Technical Support Document (TSD)
Mesa Fully Formed, Inc.
Permit Number: V97-027, Significant Permit Revision S05-010, (#300377)
June 1, 2006

I. COMPANY DESCRIPTION

Mesa Fully Formed manufactures kitchen and bath countertops, sinks, bathtubs and shower walls. The major manufacturing processes at Mesa Fully Formed are the fabrication of cultured marble products, laminate/Corian countertops, and assembly of products. Mesa Fully Formed was first permitted in November of 1994 (Permit 94-0124).

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1110 S. Lewis St.
Mesa, AZ 85210-8733

II. DESCRIPTION OF PERMIT REVISION

A. NESHAP REQUIREMENTS FOR NEW AND EXISTING REINFORCED PLASTIC COMPOSITES PRODUCTION FACILITIES

On April 21, 2003, the USEPA promulgated a National Emissions Standards for Hazardous Air Pollutants (NESHAP) for new and existing reinforced plastic composites production facilities. The NESHAP regulate production and ancillary processes used to manufacture products with thermoset resins and gel coats. Reinforced plastic composites production facilities emit hazardous air pollutants (HAP), such as styrene, methyl ethacrylate (MMA), and methylene chloride (dichloromethane). These HAPs have adverse health effects including headache, fatigue, depression, irritation of skin, eyes, and mucous membranes. Methylene chloride has been classified as a probable human carcinogen. The NESHAP will implement section 112(d) of the Clean Air Act (CAA) by requiring all major sources in this category to meet HAP emissions standards reflecting the application of the maximum achievable control technology (MACT). It is estimated that the final NESHAP will reduce nationwide emissions of HAP from these facilities by approximately 7,682 tons per year (tpy) (43 percent).

The Reinforced Plastic Composites Production source category involves the production of plastic products from cross-linking resins, usually in combination with reinforcing materials and inorganic fillers. These products may have an outer surface produced with a styrene-containing gel coat. The production of products that do not contain reinforcing materials is also included in this category, as well as the production of intermediate compounds that are later used to make the final plastic products. These non-reinforced products were included because they are produced using the same types of resins, have similar HAP emissions characteristics, and would use similar HAP emissions controls. This source category is limited to those resins and gel coats which contain styrene, either by itself or with a

combination of other monomers or solvents. The MFF facility is classified as a major source for HAPs. Production at the MFF include open molding operations in the tooling area, open molding operations in the production area, the mixing of HAP containing materials, equipment cleaning, storage of HAP-containing material and repair activities. All of these activities are regulated under the NESHAP.

Operations at MFF include resins and gel coats are applied manually and with mechanical, atomized spray equipment, resins that are applied include a mix of vapor suppressed resins, non-vapor suppressed resins, high strength resins, and shrinkage controlled resins. MFF is required to comply with the NESHAP by April 21, 2006. Until that date, Condition 22 of the Title V permit will not be an applicable requirement to MFF.

MFF has a annual VOC limit of 58.9 tons per year. On April 21, 2004, the State submitted the One-Hour Ozone Redesignation Request and Maintenance Plan for the Maricopa County Nonattainment Area (assumed to include the Phoenix metropolitan nonattainment area). On March 21, 2005, EPA proposed to approve Arizona's request to redesignate the Phoenix metropolitan 1-hour ozone nonattainment area from nonattainment to attainment (see 70 FR 13425), and gave final approval of the redesignation on June 14, 2005 with an effective date of June 14, 2005 (see 70 FR 34362). The 1-hour standard was then revoked effective June 15, 2005 for all areas in Arizona (see 40 CFR 81.303) and no longer applies.

MFF is located in an area that has been designated basic nonattainment for the 8-hour standard (see July 1, 2004 version of 40 CFR 81.303). The "basic" classification indicates that the area meets the current 1-hour ozone standard, but does not meet the 8-hr standard.

MCAPCR Rule 240 §210.1 (5/7/03 version) states that "any stationary source located in a nonattainment area that emits, or has the potential to emit, 100 tons per year or more of any conventional pollutant . . ." is a major source. As a result MFF VOC emissions will be limited to 58.9 tons per year by permit condition and will no longer be considered a major source for VOC emissions. The redesignation of the attainment status in combination with the existing VOC limit in effect will designate the facility a minor source for that pollutant. The facility will remain a major source with respect to HAP emissions.

B. ADDITION OF A PANEL SHOP AUTOCASER IN 2004

On October 5, 2004, MFF submitted a seven day notice to replace a broken autocaster. The autocaster was located in the panel shop. The make and model is a Gruber Economizer, serial number 353 with a flow rate capacity of 40-60 pounds per minute. MCAQD did not accept this notice as the appropriate permitting procedure for this type of change. MFF requested (January 7, 2006) that the installed autocaster be added to the equipment list during the current revision process for the NESHAP. Since the auto caster was replaced during the time period that the facility was a major source for VOC's in a serious nonattainment area, the replacement was assessed for County Rule 240 (NSR) applicability. The "past actual" emissions were calculated using the average of the 2002 and 2003 reported emissions. This was calculated to be 37.9 ton per year. The future potential VOC emissions are 58.9 tons per year which are the allowable VOC emissions under the current permit. The maximum increase in emissions would be equal to the difference of these two numbers (21.0 tpy) which is less than the 25 ton per year increase significance level. However, County Rule 240 § 307 also requires a five year aggregation of all creditable increases and decreases in emissions. The seven day notice and the installation of the autocaster took place in the 2004 calendar year, therefore the five year aggregation exercise

must include the previous five consecutive calendar years, including the calendar year the in which the increase is proposed. This period would be from 2000 to 2004. The oldest modification submitted during that timeline was in the year 2000. Since there is a facility wide emission cap, there can not be any creditable decreases. The baseline for the five year aggregation (2000-2004) exercise would be 1999 and 1998 because there was a modification in the year 2000 that increased VOC emissions. For calendar year 1999, 88,120 pounds of VOCs were emitted. For calendar year 1998, 68,242 pounds of VOCs were emitted. The calculated average is a baseline amount of 39.1 tons/yr. Mesa Fully Formed has a site-wide VOC emission limit of 58.9 tons/yr. The difference between the baseline emission rate (actual emissions) and permitted limit (future PTE) is 19.8. This is less than the significance level (25 tons/yr), the amount that triggers County Rule 240 applicability. Therefore County Rule 240 is not an applicable requirement for the installation of the autocaster.

The authorization for the installation of Gruber Economizer autocaster will be performed through the processing of this significant revision.

C. REQUEST FOR AN ADDITION OF AN AUTOCASTER

MFF submitted an addendum to their original application requesting authority to install a new autocaster. The make and model is a Gruber Economizer, serial number 353 with a flow rate capacity of 40-60 pounds per minute. Since the source is a synthetic minor source, County Rule 240 (NSR) is not an applicable requirement; however County Rule 241 will be an applicable requirement. A baseline emission rate based on the two calendar years prior to the 2005 period was calculated. For calendar year 2004, 96,596 pounds of VOCs were emitted. For calendar year 2003, 86,936 pounds of VOCs were emitted. The calculated average is a baseline amount of 45.9 tons/yr. Mesa Fully Formed has a site-wide VOC emission limit of 58.9 tons/yr. The difference between the baseline emission rate (actual emissions) and permitted limit (future PTE) is 14.0 tons/yr. This is less than the significance level (25 tons/yr), the amount that triggers County Rule 241 BACT applicability. For an average 6 day work week (less holidays) of 300 days/yr, 45.9 tons/yr VOCs averages 306 lbs/day. The permitted limit is 393 lbs/day. The difference is 87 lbs/day, less than 150 lbs/day, the amount that triggers County Rule 241 BACT applicability. Therefore a BACT analysis is not required. The new autocaster is replacing a current autocaster that uses HAP containing solvents to clean. The new equipment will not use HAP containing solvent and therefore is considered to meet the requirements of RACT.

This significant modification is approving the addition of this autocaster, however the authority to install the equipment will not be granted until this permit revision has been approved by the Control Officer according to County Rule 210.

D. UPDATE EQUIPMENT LIST

The equipment list has been updated. Previously the woodworking equipment was listed generally with no specific information regarding to the type and amount of equipment at the facility. MCAQD required the facility to update the equipment list to include specifically all woodworking equipment that did not meet the requirements to be deemed insignificant. The provided list has been put into the permit. In order for MFF to replace or add additional all permittable equipment, the appropriate permitting procedure must take place.

E. REMOVAL OF PERMIT CONDITION 19.B.5) and 20.A.5)

Condition 20.A.5) authorizes the replacement of woodworking equipment so long as the Permittee does not exceed a combined total of 370 H.P. for all the combined woodworking equipment and marble finishing equipment. Condition 19.B.5) requires the Permittee to not exceed a combined total of 370 H.P. for all the combined woodworking equipment and marble finishing equipment. There is no provision in County Rule 210 or the SIP that allows this alternative permitting process. These permit conditions have been removed. MCAQD does not have the authority to remove circumvent the requirements of County Rule 210 or applicable SIP requirements. MFF must follow all the applicable County and SIP requirements to add or change out permitted equipment.